

```

1  stop
2
3  *****
4  * First steps
5  *****
6
7  * Set working directory
8
9  cd "C:\Work\COVID19"
10
11 * Set log file
12 * Use option 'append', if you want to add to current log file
13 * For more info type: help log
14
15 log using today_date.log, replace
16
17 *****
18 *****
19 *****
20 * Import data into Stata
21 *****
22 *****
23 *****
24
25
26 *****
27 * Import cases data
28 *****
29
30 * Source of data
31 * https://data.humdata.org/dataset/novel-coronavirus-2019-ncov-cases
32
33 import delimited "time_series_covid19_confirmed_global_iso3_regions.csv", clear
34
35 * Browse data
36
37 browse
38
39 * Rename a variable
40 * For more info type: help rename
41
42 rename v4 longitude
43
44 * Convert numbers from string to numeric
45 * For more info type: help destring
46 * If you get the error: "contains nonnumeric characters; no replace"
47 * use the option ignore() to account for any non-numeric characters
48
49 destring lat longitude, replace ignore("#geo+lat" "#geo+long")
50
51 * Drop first case
52 * For more info type: help drop
53
54 drop in 1
55
56 * Replace variable names with variable labels
57 * For more info type: help foreach
58
59 foreach v of varlist v* {
60     local z : variable label `v' /* save variable label in local `z' */
61     local w : subinstr local z "/" "_", all /* replace all "/" with "_" and saves it in local `w' */
62     rename `v' x`w' /* renames the variable with local `w' and prefix 'x' */
63 }
64
65 * Saving data in Stata format
66 * Stata files have extension *.dta
67
68 save cases, replace
69
70 * Descriptive statistics

```

```

71 * For more info type: help summarize
72 * Check also commands: tabstat, table
73
74 summarize
75
76 * Frequencies
77 * For more info type: help tab
78
79 tab countryregion
80
81 * Aggregate at the country/region level (one observation per country/region)
82 * It creates a new dataset, you need to save it again (preferable with different name)
83 * For more info type: help collapse
84
85 collapse (sum) x*, by(countryregion)
86
87 * Check frequencies again
88
89 tab countryregion
90
91 save cases_agg, replace
92
93 * Reshape long to wide (create panel data)
94 * See here: https://www.princeton.edu/~otorres/DataPrep101.pdf#page=27
95 * It creates a new dataset, you need to save it again (preferable with different name)
96 * For more info type: help reshape
97
98 reshape long x, i(countryregion) j(date) string
99
100 browse
101
102 * Rename a variable
103
104 rename x cases
105
106 * Add a label variable
107
108 label variable cases "Cumulative cases"
109
110 * Format 'date' as date variable
111 * See here: https://www.princeton.edu/~otorres/TS101.pdf
112 * For more info type: help gen
113 * For more info type: help format
114 * For more info type: help date
115
116 gen datevar = date(date, "MDY", 2099)
117
118 format datevar %td
119
120 *format datevar %tdM_D,_YY
121
122 * Save the data
123
124 save cases_final, replace
125
126 *****
127 * Import death data
128 *****
129
130 import delimited "time_series_covid19_deaths_global_iso3_regions.csv", clear
131
132 * Browse data
133
134 browse
135
136 * Rename a variable
137 * For more info type: help rename
138
139 rename v4 longitude
140

```

```

141 * Convert numbers from string to numeric
142 * For more info type: help destrstring
143 * If you get the error: "contains nonnumeric characters; no replace"
144 * use the option ignore() to account for any non-numeric characters
145
146 destrstring lat longitude, replace ignore("#geo+lat" "#geo+long")
147
148 * Drop first case
149 * For more info type: help drop
150
151 drop in 1
152
153 * Replace variable names with variable labels
154 * For more info type: help foreach
155
156 foreach v of varlist v* {
157     local z : variable label `v' /* save variable label in local `z' */
158     local w : subinstr local z "/" "_", all /* replace all "/" with "_" and saves it in local `w' */
159     rename `v' x`w' /* renames the variable with local `w' and prefix 'x' */
160 }
161
162 * Saving data in Stata format
163 * Stata files have extension *.dta
164
165 save deaths, replace
166
167 * Descriptive statistics
168 * For more info type: help tab
169 * Check also commands: tabstat, table
170
171 summarize
172
173 * Frequencies
174 * For more info type: help tab
175
176 tab countryregion
177
178 * Aggregate at the country/region level (one observation per country/region)
179 * It creates a new dataset, you need to save it again (preferable with different name)
180 * For more info type: help collapse
181
182 collapse (sum) x*, by(countryregion)
183
184 * Check frequencies again
185
186 tab countryregion
187
188 save deaths_agg, replace
189
190 * Reshape long to wide (create panel data)
191 * It creates a new dataset, you need to save it again (preferable with different name)
192 * For more info type: help reshape
193
194 reshape long x, i(countryregion) j(date) string
195
196 browse
197
198 * Rename a variable
199
200 rename x deaths
201
202 * Add a label variable
203
204 label variable deaths "Cumulative deaths"
205
206 * Format 'date' as date variable
207 * For more info type: help gen
208 * For more info type: help format
209 * For more info type: help date
210

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```

211 gen datevar = date(date, "MDY", 2099)
212
213 format datevar %td
214
215 *format datevar %tdM_D,_YY
216
217 * Save the data
218
219 save deaths_final, replace
220
221 *****
222 * Import WDI data
223 *****
224
225 * Source of data:
226 * https://databank.worldbank.org/source/world-development-indicators
227
228 import excel "WDI2021Select.xlsx", sheet("Data") firstrow clear
229
230 * Removing variables
231 * For more info type: help drop
232
233 drop Time TimeCode
234
235 * Renaming variables
236 * For more info type: help rename
237
238 rename CountryName country
239 rename CountryCode ccode
240 rename GDPpercapitaconstant2015US gdppc
241 rename PopulationtotalSPPOPTOTL pop
242 rename Populationdensitytypepeoplepers popdensity
243
244 tab country
245
246 * Replacing WDI country names to match the COVID19 dataset
247 * For more info type: help replace
248
249 replace country = "Bahamas" if country == "Bahamas, The"
250 replace country = "Brunei" if country == "Brunei Darussalam"
251 replace country = "Congo (Brazzaville)" if country == "Congo, Rep."
252 replace country = "Congo (Kinshasa)" if country == "Congo, Dem. Rep."
253 replace country = "Czechia" if country == "Czech Republic"
254 replace country = "Egypt" if country == "Egypt, Arab Rep."
255 replace country = "Gambia" if country == "Gambia, The"
256 replace country = "Iran" if country == "Iran, Islamic Rep."
257 replace country = "Korea, North" if country == "Korea, Dem. People's Rep."
258 replace country = "Korea, South" if country == "Korea, Rep."
259 replace country = "Kyrgyzstan" if country == "Kyrgyz Republic"
260 replace country = "Laos" if country == "Lao PDR"
261 replace country = "Micronesia" if country == "Micronesia, Fed. Sts."
262 replace country = "Russia" if country == "Russian Federation"
263 replace country = "Slovakia" if country == "Slovak Republic"
264 replace country = "Syria" if country == "Syrian Arab Republic"
265 replace country = "Turkey" if country == "Turkiye"
266 replace country = "US" if country == "United States"
267 replace country = "Venezuela" if country == "Venezuela, RB"
268 replace country = "Yemen" if country == "Yemen, Rep."
269
270 * Saving as Stata data
271
272 save wdi2021, replace
273
274 *****
275 * Import World Values Survey dataset
276 *****
277
278 * Source of data:
279 * https://www.worldvaluessurvey.org/WVOnline.jsp
280

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281 import excel "Confidence_The_Government20172022.xls", sheet("Sheet1") firstrow clear
282
283 tab country
284
285 * Replacing WDI country names to match the COVID19 dataset
286 * For more info type: help replace
287
288 replace country = "Bosnia and Herzegovina" if country == "Bosnia Herzegovina"
289 replace country = "Korea, South" if country == "South Korea"
290 replace country = "US" if country == "United States"
291
292 save wvs7, replace
293
294
295 *****
296 *****
297 *****
298 * Merging data
299 *****
300 *****
301 *****
302
303
304 *****
305 * Merge cases and deaths dataset
306 *****
307
308 * Open data in Stata format
309
310 use cases_final, clear
311
312 * For more info type: help merge
313
314 merge 1:1 countryregion datevar using deaths_final, gen(merge1)
315
316 tab merge1
317
318 * Save dataset
319
320 save covid, replace
321
322 *****
323 * Merge COVID and WDI datasets
324 *****
325
326 * Rename a variable
327
328 rename countryregion country
329
330 * Running the following will give an error, see below
331
332 merge m:1 country using wdi2021, gen(merge2)
333
334 * Getting the following error
335 * "variable country does not uniquely identify observations in the using data"
336 * We need to check the WDI data for duplicate values in variable 'country'
337
338 use wdi2021, clear
339
340 tab country, missing
341
342 * It looks like there are missing values in variable 'country'
343 * Drop missing values which could be:
344 * - blanks in string variables (use double quotes)
345 * - dots in numeric variables (use only a dot, no quotes)
346
347 drop if country == ""
348
349 save, replace
350

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351 * Repeat
352
353 use covid, clear
354
355 rename countryregion country
356
357 merge m:1 country using wdi2021, gen(merge2)
358
359 * NOTE: If you want to keep only the perfect matches type:
360 *keep if merge2 == 3
361
362 save covid_final.dta, replace
363
364 *****
365 *Merge WVS with covid_final dataset
366 *****
367
368 merge m:1 country using wvs7, gen(merge3)
369
370 * Creating a new variable from others in the data
371
372 gen trust = Agreatdeal + Quitealot
373
374 * Add a label to the new variable
375
376 label variable trust "Trust in goverment (a great deal + quite a lot)"
377
378 * Save the data
379
380 save, replace
381
382 * Move id variables to top or begining of the dataset
383 * For more info type: help order
384
385 order country datevar date
386
387 *****
388 *****
389 *****
390 * Visualizing data
391 *****
392 *****
393 *****
394
395 * See here for a gallery of graphs in Stata
396 * https://www.stata.com/support/faqs/graphics/gph/stata-graphs/
397 * https://www.stata.com/features/publication-quality-graphics/
398
399 * Describe and summarize the data
400 * For more info type: help describe
401 * For more info type: help summarize
402
403 describe
404
405 summarize
406
407 * Set dataset as panel dataset
408 * Allow to use time series operators
409 * For more info type: help xtset
410
411 * Running the following will give an error, see below
412
413 xtset country datevar
414
415 * Gives error:
416 * "string variables not allowed in varlist;
417 *   country is a string variable"
418
419 * Country variable needs to have a number associated to each country.
420 * 'encode' assigns a number in alphabetical order

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421 * Do not use 'encode' to convert numbers in string to numeric, (use 'destring' instead)
422
423 encode country, generate(country1)
424
425 order country1 country
426
427 browse
428
429 * Set dataset as panel dataset
430 * Allow to use time series operators
431
432 xtset country1 datevar
433
434 * For time series data type: tsset datevar
435
436 * Time series or line graphs
437 * For more info type: help twoway line
438
439 *xtline cases
440 *xtline cases, overlay legend(off)
441 * For more info type: help xtline
442
443 * Time series graph or line graphs
444 * Time variable always on x-axis (horizontal)
445 * For more info type: help twoway line
446
447
448 twoway line cases datevar if country == "US"
449
450 twoway line cases datevar if country == "US", title(Cumulative COVID-19 cases in the United States) ///
451     ylabel( , labsize(2) format(%11.0fc)) ///
452     ylabel(# of cases) ///
453     xlabel("") ///
454     tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid)
455
456 twoway line deaths datevar if country == "US", title(Cumulative COVID-19 deaths in the United States) ///
457     ylabel( , labsize(2) format(%11.0fc)) ///
458     ylabel(# of deaths) ///
459     xlabel("") ///
460     tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid)
461
462 * See the assigned number to variable country1
463 * For more info type: help labelbook
464
465 labelbook country1
466
467 twoway line cases datevar if country1 == 263, ///
468     title({bf:Cumulative} COVID-19 cases in the {it:United States}) ///
469     ylabel( , labsize(2) format(%11.0fc)) ///
470     ylabel(# of cases) ///
471     xlabel("") ///
472     tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) format(%tdm_d,y) grid)
473
474 * For more info see:
475 *https://www.stata.com/bookstore/pdf/g\_text.pdf
476 *https://www.stata.com/features/overview/symbols-and-multiple-fonts/
477
478 * Compare with another country/region
479
480 twoway line cases datevar if country == "US" || ///
481     line cases datevar if country == "United Kingdom", title(Cumulative COVID-19 cases) ///
482     ylabel( , labsize(2) format(%11.0fc)) ///
483     ylabel(# of cases) ///
484     xlabel("") ///
485     tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid) ///
486     legend(label(1 "United States") label(2 "United Kingdom"))
487
488 * Accounting for population (per 100k)
489
490 table country1 if datevar == td(22jan2020), statistic(sum pop)

```

```

491
492 gen cases100k = cases / (pop/100000)
493
494 gen deaths100k = deaths / (pop/100000)
495
496 twoway line cases100k datevar if country == "US", lcolor(black) || ///
497     line cases100k datevar if country == "United Kingdom", lcolor(red) || ///
498     line cases100k datevar if country == "Brazil", lcolor(green) ///
499         title("Cumulative COVID-19 cases per 100,000 people") ///
500         ylabel( , labsize(2) format(%11.0fc)) ///
501         ylabel(# of cases) ///
502         xlabel( , labsize(2) format(%11.0fc)) ///
503         tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid) ///
504         legend(label(1 "United States") label(2 "United Kingdom") label(3 "Brazil"))
505
506 twoway line deaths100k datevar if country == "US", lcolor(black) || ///
507     line deaths100k datevar if country == "United Kingdom", lcolor(red) || ///
508     line deaths100k datevar if country == "Brazil", lcolor(green) ///
509         title("Cumulative COVID-19 deaths per 100,000 people") ///
510         ylabel( , labsize(2) format(%11.0fc)) ///
511         ylabel(# of cases) ///
512         xlabel( , labsize(2) format(%11.0fc)) ///
513         tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid) ///
514         legend(label(1 "United States") label(2 "United Kingdom") label(3 "Brazil"))
515
516 * For some examples see:
517 * https://www.princeton.edu/~otorres/Visual101.pdf
518
519 * Get daily counts
520
521 * Using time series operators
522 * Accounts for the panel data structure
523
524 xtset country1 datevar
525
526 * Using time series operators
527 * See https://www.princeton.edu/~otorres/TS101.pdf
528 * See also option [_n-1] in: help _n
529
530 gen daily_cases = cases - L1.cases
531 gen daily_cases100k = cases100k - L1.cases100k
532
533 gen daily_deaths = deaths - L1.deaths
534 gen daily_deaths100k = deaths100k - L1.deaths100k
535
536 browse country1 datevar cases daily_cases
537
538 sum daily_cases daily_cases100k daily_deaths daily_deaths100k
539
540 replace daily_cases = 0 if daily_cases < 0
541 replace daily_cases100k = 0 if daily_cases100k < 0
542
543 replace daily_deaths = 0 if daily_deaths < 0
544 replace daily_deaths100k = 0 if daily_deaths100k < 0
545
546 sum daily_cases daily_cases100k daily_deaths daily_deaths100k
547
548 twoway line daily_cases datevar if country == "US", title(Daily COVID-19 cases in the United States) ///
549     ylabel( , labsize(3) format(%11.0fc)) ///
550     ylabel(# of cases) ///
551     xlabel( , labsize(2) format(%11.0fc)) ///
552     tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid)
553
554 twoway line daily_deaths datevar if country == "US", title(Daily COVID-19 deaths in the United States) ///
555     ylabel( , labsize(3) )
556     ylabel(# of deaths) ///
557     xlabel( , labsize(2) format(%11.0fc)) ///
558     tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid)
559
560 * 7-day moving average

```



```

561 * Manual estimation
562 *gen daily7_deaths_m = (daily_deaths + l1.daily_deaths + l2.daily_deaths + l3.daily_deaths + l4.daily_deaths +
563 15.daily_deaths + l6.daily_deaths)/7
564
565 * Using user-written add-on egenmore
566 * For more info type: help egenmore
567 * See also: help egen
568
569 ssc install egenmore, replace
570
571 xtset country1 datevar
572
573 egen daily7_cases = filter(daily_cases), lags(0/6) normalise
574
575 egen daily7_cases100k = filter(daily_cases100k), lags(0/6) normalise
576
577 egen daily7_deaths = filter(daily_deaths), lags(0/6) normalise
578
579 egen daily7_deaths100k = filter(daily_deaths100k), lags(0/6) normalise
580
581 browse country1 datevar daily_deaths daily7_deaths
582
583 twoway line daily7_cases datevar if country == "US", ///
584 title(7-day moving average COVID-19 cases) ///
585 subtitle(United States) ///
586 ylabel( , labsize(3) format(%11.0fc)) ytitle(# of cases) ///
587 tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid) xtitle("") ///
588 tline(20jan2021) ///
589 ttext(700000 20jul2020 "Trump") ///
590 ttext(700000 20jul2021 "Biden")
591
592 twoway line daily7_deaths datevar if country == "US", ///
593 title(7-day moving average COVID-19 deaths) ///
594 subtitle(United States) ///
595 ylabel( , labsize(3) format(%11.0fc)) ytitle(# of deaths) ///
596 tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid) xtitle("") ///
597 tline(20jan2021) ///
598 ttext(3500 20jul2020 "Trump") ///
599 ttext(3500 20jul2021 "Biden")
600
601 twoway line daily7_deaths100k datevar if country == "US" || ///
602 line daily7_deaths100k datevar if country == "United Kingdom", ///
603 title(7-day moving average COVID-19 deaths per 100k people) ///
604 subtitle(United States and United Kingdom) ///
605 ylabel( , labsize(3) format(%11.0fc)) ///
606 ytitle(# of deaths) ///
607 xtitle("") ///
608 tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid) ///
609 legend(label(1 "United States") label(2 "United Kingdom" ))
610
611 * Percentage change
612
613 gen daily7_casesgr = ((daily7_cases - l1.daily7_cases) / l1.daily7_cases) * 100
614
615 gen daily7_deathsgr = ((daily7_deaths - l1.daily7_deaths) / l1.daily7_deaths) * 100
616
617 browse country1 datevar daily7_cases daily7_casesgr
618
619 twoway line daily7_deathsgr datevar if country == "US", ///
620 title(Daily percentage growth COVID-19 deaths) ///
621 subtitle(United States) ///
622 ylabel( , labsize(3) format(%11.0fc)) ///
623 ytitle(%) ///
624 xtitle("") ///
625 tlabel(22jan2020(15)31aug2022 , labsize(1.5) angle(45) grid) ///
626 tline(20jan2021) ///
627 ttext(450 20jul2020 "Trump") ///
628 ttext(450 20jul2021 "Biden")
629
630 * Scatterplots
631
632 twoway scatter daily7_cases100k gdppc

```

```

630
631 twoway scatter daily7_cases100k gdppc, jitter(13) ///
632             xlabel(0(5000)112000 , labsize(2) angle(45) format(%11.0fc) grid) ///
633             ylabel( , labsize(2) angle(45) format(%11.0fc))
634
635 twoway scatter daily7_cases100k gdppc, jitter(13) ///
636             xlabel(0(5000)112000 , labsize(2) angle(45) format(%11.0fc) grid) ///
637             ylabel( , labsize(2) angle(45) format(%11.0fc)) || ///
638             lfit daily7_cases100k gdppc, lcolor(white)
639
640 twoway scatter daily7_deaths100k gdppc, jitter(13) ///
641             xlabel(0(5000)112000 , labsize(2) angle(45) format(%11.0fc) grid) || ///
642             lfit daily7_deaths100k gdppc, lcolor(white)
643
644 twoway scatter daily7_deaths100k gdppc, jitter(13) ///
645             xlabel(0(5000)112000 , labsize(2) angle(45) format(%11.0fc) grid) ///
646             msymbol(none) mlabel(country) mlabsize(1.5) mlabposition(0) || ///
647             lfit daily7_deaths100k gdppc, lcolor(white) legend(off)
648
649 * Scatterplot with trust in government
650
651 twoway scatter daily7_deaths100k trust, jitter(13) || ///
652             lfit daily7_deaths100k trust, lcolor(white) ///
653             legend(off) ///
654             ylabel(7-day MA deaths per 100k) ///
655             xtitle("Trust in government (a great deal + quite a lot)")
656
657 * Correlation
658 * For more info type: help pwcorr
659 * See also command: corr
660
661 pwcorr daily7_cases100k daily7_deaths100k gdppc trust, star(0.05) sig
662
663
664 * Recoding a variable
665
666 * Get detailed summary statistics
667
668 sum gdppc
669
670 sum gdppc if datevar == td(31aug2022), detail
671
672 * Recoding a variable into a new one
673 * For more info type: help recode
674
675 recode gdppc (0/2000 = 1 "Less 2k") ///
676             (2000.001/16000 = 2 ">2k-16k") ///
677             (16000.001/43000 = 3 ">16k-43k") ///
678             (43000.001/56000 = 4 ">43k-56k") ///
679             (56000.001/111000 = 5 ">56k") ///
680             (else = .), gen(income_group) label(income_group)
681
682 label variable income_group "GDPPC recoded"
683
684 tab income_group
685
686 tab income_group, nolabel
687
688 twoway scatter daily7_cases100k income_group, jitter(13) xlabel( , valuelabel) ///
689             xtitle(Income groups) mlabel(country) ///
690             mlabsize(1.5) msymbol(none) mlabposition(0)
691
692 twoway scatter daily7_deaths100k income_group, jitter(13) xlabel( , valuelabel) ///
693             xtitle(Income groups) mlabel(country) ///
694             mlabsize(1.5) msymbol(none) mlabposition(0)
695
696 * Box plots. This takes longer
697 * For more info type: help graph box
698 *graph box daily7_deaths100k, over(income_group) marker(1, mlabel(country) msize(1.5))
699

```

```

700
701 * Is there a significant difference across groups?
702 * One-way Anova
703 * Null hypothesis: all means are equal
704 * Alternative hypothesis: at least one is not
705 * For more info type: help oneway
706
707 oneway daily7_cases100k income_group, tabulate bonferroni
708
709 oneway daily7_deaths100k income_group, tabulate bonferroni
710
711 table income_group, statistic(mean daily7_cases100k) statistic(mean daily7_deaths100k)
712
713 * ttest
714 * Null hypothesis: mean1 = mean2
715 * Alternative hypothesis: mean1 not equal to mean2 (two-sided)
716 * For more info type: help ttest
717
718 ttest daily7_cases100k if income_group == 3 | income_group == 4, by(income_group)
719
720 ttest daily7_deaths100k if income_group == 4 | income_group == 5, by(income_group)
721
722
723 * Regression
724 * reg output independent(s), robust
725 * For more info type: help reg
726
727 reg daily7_cases100k gdppc, robust
728
729 * Histograms
730 * For more info type: help hist
731
732 hist daily7_deaths100k
733
734 hist gdppc
735
736 hist trust
737
738 twoway scatter daily7_deaths100k gdppc
739
740 gen lngdppc = ln(gdppc)
741
742 gen lndaily7_deaths100k = ln( daily7_deaths100k + 1)
743
744 gen lndaily7_cases100k = ln( daily7_cases100k + 1)
745
746 twoway scatter lndaily7_deaths100k lngdppc
747
748 reg lndaily7_deaths100k lngdppc, robust
749
750 reg lndaily7_deaths100k lngdppc trust, robust
751
752 reg lndaily7_deaths100k i.income_group, robust
753
754 reg lndaily7_deaths100k i.income_group trust, robust
755
756
757 * Export regression results to a nice table using outreg2
758 * For more info type: help outreg2
759
760 ssc install outreg2, replace
761
762 reg lndaily7_deaths100k lngdppc, robust
763
764 outreg2 using myreg.doc, replace
765
766 reg lndaily7_deaths100k lngdppc trust, robust
767
768 outreg2 using myreg.doc, append
769

```

```

770 * If when using outreg2 you get the following error, make sure to close the word or excel document firstrow
771 * "file using "myreg.doc" is read-only; cannot be modified or erased
772 * The file needs to be closed if being used by another software such as Word."
773
774 * For all other procedures, you can use the user-created command "asdoc"
775 * For more info type: help asdoc
776
777 ssc install asdoc, replace
778
779 asdoc ttest daily7_cases100k if income_group == 3 | income_group == 4, by(income_group) save(myresults.doc) replace
780
781 asdoc ttest daily7_deaths100k if income_group == 4 | income_group == 5, by(income_group) save(myresults.doc)
782
783 asdoc pwcorr daily7_cases100k daily7_deaths100k gdppc income_group trust, star(0.05) sig save(myresults.doc)
784
785
786 * If when using asdoc you get the following error, make sure to close the word document firstrow
787 * "file ttest.doc could not be opened
788 *          fopen(): 603 file could not be opened
789 *          asdoctable(): - function returned error
790 *          <istmt>: - function returned error"
791
792
793 * Close the log
794
795 log close
796
797
798 *****
799 * ONLINE RESOURCES
800 *****
801 /*
802 Stata documentation - https://www.stata.com/features/documentation/
803 Stata tutorials - http://www.princeton.edu/~otorres/
804 */
805
806
807
808

```