R, Stata Concordance

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| Purpose | Stata | R |
| Get data | use "$dirfolder\wgidataset-fixed.dta", clear | dat <- read\_csv("data/ACLED/ACLEDOffline.csv") |
| Collapse to units of a sum of events for each group and year | encode countryname, generate(countryname1) label(countryname)  order countryname1, after (countryname)  keep if countryname1==3 | countryname1==196 | countryname1==89 | countryname1==96 | countryname1==110 | countryname1==58 | countryname1==131  keep if year>2007 | YrTyp <- dat3 %>%  group\_by(country=Country, year=Event\_Year, type=Event\_Type) %>%  summarize(events=n()) %>%  as.data.frame() |
| Establish the basic plot | graph twoway (scatter vae year if countryname1==196, connect(direct) color(yellow)) (scatter vae year if countryname1==110, connect(direct) color(green)) (scatter vae year if countryname1==58, connect(direct) color(purple)) | ggplot(YrTyp, aes(year, events, color=country)) +  geom\_line(size=1) +  geom\_point(size=3) + |
| Add vertical line to set a break point | + tline(2010, lc(gray)) tlabel(2010 `""Arab" "Spring""', add labsize(\*.75)) | + geom\_vline(xintercept=2010, size=1.2, color="darkgrey",alpha=.99) |
| Use a palette that is color-blind friendly | + color(yellow) color(green) color(purple) | + scale\_color\_viridis\_d() |
| Sequence x-axis and label values | + xtitle("") xlabel(2008(2)2020,grid) | + scale\_x\_continuous(breaks=seq(2008,2020,2),  labels=c("2008", "Arab\nSpring", "2012", "2014", "2016", "2018", "2020")) |
| Create a legend | + legend(label(1 "Tunisia") label(2 "Libya") label(3 "Egypt") col(3))  + text(0.4 2019.5 "Tunisia") text(-1.55 2019.5 "Libya") text(-1.30 2019.5 "Egypt") |  |
| Orient and label y-axis, establish a grid | + ytitle("Index" "Score", orient(horizontal)) ylabel(,angle(0))  + ylabel(,grid) |  |
| Name graph | + title("Voice and Accountability") |  |