R, Stata Concordance

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| Purpose | Stata | R |
| Get data |  | va <- read\_excel("data/World Governance Indicator/cleaned.xlsx", sheet = "VoiceandAccountability") |
| Collapse to units of a sum of events for each group and year |  | YrTyp <- dat3 %>%  group\_by(country=Country, year=Event\_Year, type=Event\_Type) %>%  summarize(events=n()) %>%  as.data.frame() |
| Pivot year columns to rows (wide to long) |  | va1 <- va %>%  filter(Subindicator\_Type == "Estimate") %>%  pivot\_longer(!Country\_Name&!Indicator\_Id&!Indicator&!Subindicator\_Type, names\_to = "Year", values\_to = "Estimate") %>%  select(1,5,6) %>%  filter(Year > 2007) |
| Establish the end points for labeling |  | va\_name <- va1 %>%  group\_by(Country\_Name) %>%  summarise(value = last(Estimate)) |
| Tweak end point values to avoid overlap |  | va\_name <- va1 %>%  group\_by(Country\_Name) %>%  summarise(value = nth(Estimate,11)) |
| Establish the basic plot |  | ggplot(va1, aes(as.double(Year), Estimate, color=Country\_Name)) +  geom\_line(size=1) +  geom\_point(size=3) |
| Add vertical and horizontal lines to highlight break points |  | + geom\_vline(xintercept=2010, size=1.2, color="darkgrey",alpha=.99) +  geom\_hline(yintercept = 0, size=1.2, color="darkgrey", alpha=0.99) |
| Use a palette that is color-blind friendly |  | + scale\_color\_viridis\_d() |

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| Purpose | Stata | R |
| Get data |  | dat <- read\_csv("data/ACLED/ACLEDOffline.csv") |
| Collapse to units of a sum of events for each group and year |  | YrTyp <- dat3 %>%  group\_by(country=Country, year=Event\_Year, type=Event\_Type) %>%  summarize(events=n()) %>%  as.data.frame() |
| Establish the basic plot |  | ggplot(YrTyp, aes(year, events, color=country)) +  geom\_line(size=1) +  geom\_point(size=3) + |
| Add vertical line to set a break point |  | + geom\_vline(xintercept=2010, size=1.2, color="darkgrey",alpha=.99) |
| Use a palette that is color-blind friendly |  | + scale\_color\_viridis\_d() |
|  |  | + scale\_x\_continuous(breaks=seq(2008,2020,2),  labels=c("2008", "Arab\nSpring", "2012", "2014", "2016", "2018", "2020")) |
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