Replication File for “Corrective Policy Reactions: Positive and Negative Budgetary Punctuations” by Carla Flink and Scott Robinson.
Data is from Texas Education Agency. Collected by Project for Equity, Representation, and Governance at Texas A&M University.
Work below done in Stata.

Variables

distid = School District ID
year = Year
pos_punc = Positive Punctuation
neg_punc = Negative Punctuation
pos_punc_2y = Positive Punctuation in past two years
neg_punc_2y = Negative Punctuation in past two years
inst_pupil = instructional expenditures per pupil
bud_change = percent budgetary change
allpass = all student standardized test pass rate
teach_turn = percent teacher turnover
perc_central = percent of funds on central administration
central_sq = percent of funds on central administration squared
log_enroll = total student enrollment logged
enroll_growth = percent change in student enrollment
puncs3table = 0 is no punctuation, 1 is positive punctuation, 2 is negative punctuation
lag_puncs3table = lag of puncs3table
sample2 = sample from Model 2
switch = negative/positive or positive/negative punctuations back-to-back
reclaim = percent of original budget (inst_pupil) after a series of positive/negative or negative/positive punctuation pair.

Table 1

```
su L.allpass L.teach_turn perc_central central_sq log_enroll
enroll_growth if sample2==1
tab pos_punc neg_punc if sample2==1
```

Table 2: Logit Models

Model 1

```
logit pos_punc L.neg_punc L.pos_punc L.allpass L.teach_turn
perc_central central_sq log_enroll enroll_growth i.year
```

Model 2

```
logit pos_punc neg_punc_2y pos_punc_2y L.allpass L.teach_turn
perc_central central_sq log_enroll enroll_growth i.year
```

Model 3

```
logit neg_punc L.neg_punc L.pos_punc L.allpass L.teach_turn
perc_central central_sq log_enroll enroll_growth i.year
```

Model 4

```
logit neg_punc neg_punc_2y pos_punc_2y L.allpass L.teach_turn
perc_central central_sq log_enroll enroll_growth i.year
```

Table 3

```
tab  lag_puncs3table puncs3table if sample2==1
```

Table 4

```
su bud_change if sample2==1
su bud_change if L.pos_punc==1 & sample2==1
su bud_change if L.neg_punc==1 & sample2==1
su bud_change if L2.pos_punc==1 & sample2==1
su bud_change if L2.neg_punc==1 & sample2==1
tab pos_punc neg_punc if sample2==1 & L.pos_punc==1
tab pos_punc neg_punc if sample2==1 & L.neg_punc==1
tab pos_punc neg_punc if sample2==1 & L2.pos_punc==1
tab pos_punc neg_punc if sample2==1 & L2.neg_punc==1
```

Table 5

```
su reclaim if sample2==1 & pos_punc ==1
su reclaim if sample2==1 & neg_punc ==1
```

Figure 5

After each model, run simulations with Clarify. Below is example for Model 1. Figure 5 completed by combining all four graphs from all Models.

```
setx mean
setx L.neg_punc  1  L.pos_punc 0
simqi

setx mean
setx L.neg_punc  0  L.pos_punc 1
simqi
```

```
graph twoway function normalden(x, .1798, .0402), range(-.01 .3)
///
 xtitle(Probability of a Positive Budgetary Punctuation)
ytitle(Density) scheme(sj) || ///
function normalden(x, .0040, .001) , range(-.01 .3) ///
 legend(lab(1 "Previous Negative Punctuation") lab(2 "Previous
Positive Punctuation")) saving(M1a,replace) ti(Model 1)
```

Figure 6

```
qui hist bud_change if L.pos_punc==1 & sample2==1, w(1) freq
xline(-33 35.5, lwidth(thick) lpattern(dash)) xtitle("") ti(One
Year After Positive Punctuation) scheme(sj) saving(1p,replace)

qui hist bud_change if L.neg_punc==1 & sample2==1, w(1) freq
xline(-33 35.5, lwidth(thick) lpattern(dash)) xtitle("")
ytitle("")  ti(One Year After Negative Punctuation) scheme(sj)
saving(1n,replace)

qui hist bud_change if L2.pos_punc==1 & sample2==1, w(1) freq
xline(-33 35.5, lwidth(thick) lpattern(dash)) xtitle("") ti(Two
Years After Positive Punctuation) scheme(sj) saving(2p,replace)

qui hist bud_change if L2.neg_punc==1 & sample2==1, w(1) freq
xline(-33 35.5, lwidth(thick) lpattern(dash)) xtitle("")
ytitle("") ti(Two Years After Negative Punctuation) scheme(sj)
saving(2n,replace)

gr combine 1p.gph 1n.gph 2p.gph 2n.gph, ycommon xcommon
```

Figure 7

```
hist reclaim if sample2==1 & pos_punc ==1, w(1) freq xline(0,
lwidth(thick) lpattern(dash)) xtitle("") saving(recpos, replace)
scheme(sj) ti("Negative Initial, Positive Correction")

hist reclaim if sample2==1 & neg_punc ==1, w(1) freq xline(0,
lwidth(thick) lpattern(dash)) xtitle("")  saving(recneg,
replace) scheme(sj) ti("Positive Initial, Negative Correction")

gr combine recpos.gph recneg.gph, ycommon xcommon r(2)
```