\*\*\* Stata code // Run the Chudy 2021 code first, lines 1079 down

svyset [pw=weight]

gen mcomm = 1 - commservice

gen rs16 = 4\* (racesymp1 + racesymp2 + racesymp3 + racesymp4)

sum rs16 racialsympathy

pwcorr rs16 racialsympathy

tab whiteblackculprit

tab rs16 if whiteblackculprit!=.

svy: reg mcomm whiteblackculprit##c.racialsympathy

margins, at(racialsympathy=(0 1) whiteblackculprit=(0 1))

marginsplot

svy: reg mcomm whiteblackculprit##c.rs16

margins, at(rs16=(0 16) whiteblackculprit=(0 1))

margins r.whiteblackculprit, at(rs16=0)

margins r.whiteblackculprit, at(rs16=1)

margins r.whiteblackculprit, at(rs16=2)

margins r.whiteblackculprit, at(rs16=3)

margins r.whiteblackculprit, at(rs16=4)

margins r.whiteblackculprit, at(rs16=5)

margins r.whiteblackculprit, at(rs16=6)

margins r.whiteblackculprit, at(rs16=7)

margins r.whiteblackculprit, at(rs16=8)

margins r.whiteblackculprit, at(rs16=9)

margins r.whiteblackculprit, at(rs16=10)

margins r.whiteblackculprit, at(rs16=11)

margins r.whiteblackculprit, at(rs16=12)

margins r.whiteblackculprit, at(rs16=13)

margins r.whiteblackculprit, at(rs16=14)

margins r.whiteblackculprit, at(rs16=15)

margins r.whiteblackculprit, at(rs16=16)

margins i.whiteblackculprit, at(rs16=16)

svy: reg mcomm whiteblackculprit if rs16==0

svy: reg mcomm whiteblackculprit if rs16==0 | rs16==1

svy: reg mcomm whiteblackculprit if rs16==0 | rs16==1 | rs==2

svy: reg mcomm whiteblackculprit if rs16==1

svy: reg mcomm whiteblackculprit if rs16==2

svy: reg mcomm whiteblackculprit if rs16==3

svy: reg mcomm whiteblackculprit if rs16==1 | rs16==2 | rs16==3

svy: reg mcomm whiteblackculprit if rs16==0 | rs16==1

svy: reg mcomm whiteblackculprit if rs16==4

svy: reg mcomm whiteblackculprit if rs16==5

svy: reg mcomm whiteblackculprit if rs16==6

svy: reg mcomm whiteblackculprit if rs16==7

svy: reg mcomm whiteblackculprit if rs16==8

svy: reg mcomm whiteblackculprit if rs16==9

svy: reg mcomm whiteblackculprit if rs16==10

svy: reg mcomm whiteblackculprit if rs16==11

svy: reg mcomm whiteblackculprit if rs16==12

svy: reg mcomm whiteblackculprit if rs16==13

svy: reg mcomm whiteblackculprit if rs16==14

svy: reg mcomm whiteblackculprit if rs16==15

svy: reg mcomm whiteblackculprit if rs16==16

# R plot code

# win.metafile(filename="F:Chudy2021JOP.wmf", width=12, height=6, pointsize=15)

# svg("E:Chudy2021JOP.svg", width=12, height=6, pointsize=15)

library(ggplot2)

DATA <- read.csv(file.choose(), header=TRUE)

theme.z <- theme(

strip.text.x=element\_text(colour="black", face="bold", size=11),

panel.grid.major.y=element\_blank(),

panel.grid.major.x=element\_blank(),

panel.grid.minor.y=element\_blank(),

panel.grid.minor.x=element\_blank(),

panel.background=element\_rect(fill="lightsteelblue2", color="black", size=0.5, linetype="solid"),

panel.border=element\_rect(fill=NA,color="black", size=1.5, linetype="solid"),

panel.spacing.x=unit(2, "lines"),

panel.spacing.y=unit(1, "lines"),

axis.title.y=element\_text(size=11, color="black"),

axis.title.x=element\_text(size=11, color="black"),

axis.ticks.y=element\_blank(),

axis.ticks.x=element\_blank(),

axis.text.x=element\_text(color="black"),

axis.text.y=element\_text(color="black"),

plot.margin=unit(c(0.25,0.1,0.25,0.1),"cm"),

plot.title=element\_text(face="bold", margin=margin(t=0, b=13), size=13, hjust=0.5),

plot.subtitle=element\_text(hjust=0.5),

plot.caption=element\_text(hjust=0.5))

DATA$RS16 <- factor(DATA$RS16, levels=c("0","1","2","3","4","5","6","7","8","9","10","11","12","13","14","15","16"))

plot.1 <- ggplot(DATA, aes(RS16, COEFF.L)) +

geom\_rect(data=NULL,aes(xmin=-Inf, xmax=Inf, ymin=0, ymax=Inf), fill="lightsteelblue3") +

geom\_hline(yintercept=0, color="black") +

# geom\_hline(yintercept=c(-10,-20,-30,-40,-50,-60,-70,-80), color="gray85") +

scale\_x\_discrete(name="Racial sympathy index") +

scale\_y\_continuous(name="", breaks=seq(-100,80,10), labels=seq(-100,80,10), expand=c(0,0), limits=c(-100,80),

sec.axis=dup\_axis()) +

geom\_point(size=2.5) +

labs(title="Estimates from a linear regression", subtitle="Difference in mean punishment: White target compared to Black target", caption="Data source: Chudy 2021 Journal of Politics.\nError bars indicate 95% confidence intervals.") +

geom\_errorbar(aes(ymin=LO95CI.L, ymax=HI95CI.L), width=0.2, size=0.75)

plot.2 <- ggplot(DATA, aes(RS16, COEFF.T)) +

geom\_rect(data=NULL,aes(xmin=-Inf, xmax=Inf, ymin=0, ymax=Inf), fill="lightsteelblue3") +

geom\_hline(yintercept=0, color="black") +

# geom\_hline(yintercept=c(-10,-20,-30,-40,-50,-60,-70,-80), color="gray85") +

scale\_x\_discrete(name="Racial sympathy index") +

scale\_y\_continuous(name="", breaks=seq(-100,80,10), labels=seq(-100,80,10), expand=c(0,0), limits=c(-100,80),

sec.axis=dup\_axis()) +

geom\_point(size=2.5) +

labs(title="Estimates calculated at each level of racial sympathy", subtitle="Difference in mean punishment: White target compared to Black target", caption="Data source: Chudy 2021 Journal of Politics.\nError bars indicate 95% confidence intervals.\nNumbers on the inside bottom of the plot are sample sizes.") +

geom\_errorbar(aes(ymin=LO95CI.T, ymax=HI95CI.T), width=0.2, size=0.75) +

geom\_text(x=0+1, y=-96, label="9", size=3) +

geom\_text(x=1+1, y=-96, label="1", size=3) +

geom\_text(x=2+1, y=-96, label="3", size=3) +

geom\_text(x=3+1, y=-96, label="6", size=3) +

geom\_text(x=4+1, y=-96, label="9", size=3) +

geom\_text(x=5+1, y=-96, label="13", size=3) +

geom\_text(x=6+1, y=-96, label="17", size=3) +

geom\_text(x=7+1, y=-96, label="14", size=3) +

geom\_text(x=8+1, y=-96, label="20", size=3) +

geom\_text(x=9+1, y=-96, label="18", size=3) +

geom\_text(x=10+1, y=-96, label="17", size=3) +

geom\_text(x=11+1, y=-96, label="14", size=3) +

geom\_text(x=12+1, y=-96, label="26", size=3) +

geom\_text(x=13+1, y=-96, label="8", size=3) +

geom\_text(x=14+1, y=-96, label="10", size=3) +

geom\_text(x=15+1, y=-96, label="9", size=3) +

geom\_text(x=16+1, y=-96, label="14", size=3)

p1 <- plot.1 + theme.z

p1

p2 <- plot.2 + theme.z

p2

# install.packages("grid",dependencies=TRUE)

library("grid")

grid.newpage()

grid.draw(cbind(ggplotGrob(p1), ggplotGrob(p2), size="last"))

# dev.off()