> setwd("~/Research/Reproducibility&Stats/data")

> politics<-read.csv("politics.csv")

> str(politics)

'data.frame': 132 obs. of 7 variables:

$ subject : int 1 2 3 4 5 6 7 8 9 10 ...

$ party : Factor w/ 3 levels "democrat","independent",..: 3 3 2 2 2 3 3 2 3 2 ...

$ testtime : Factor w/ 2 levels "post","pre": 2 2 2 2 2 2 2 2 2 2 ...

$ optimismscore: int 52 51 69 51 61 31 57 48 42 64 ...

$ minwage : Factor w/ 2 levels "no","yes": 1 1 2 1 2 1 1 1 1 1 ...

$ sex : Factor w/ 2 levels "female","male": 2 2 1 2 2 2 2 2 2 2 ...

$ income : num 37.3 42.3 73 33.8 57.3 ...

> summary(politics$optimismscore[politics$testtime=="post"])

Min. 1st Qu. Median Mean 3rd Qu. Max.

18.00 45.00 61.00 59.82 73.00 94.00

> politics$subject<-factor(politics$subject)

> politics$testtime<-factor(politics$testtime, levels=c("pre", "post"))

> str(politics)

'data.frame': 132 obs. of 7 variables:

$ subject : Factor w/ 66 levels "1","2","3","4",..: 1 2 3 4 5 6 7 8 9 10 ...

$ party : Factor w/ 3 levels "democrat","independent",..: 3 3 2 2 2 3 3 2 3 2 ...

$ testtime : Factor w/ 2 levels "pre","post": 1 1 1 1 1 1 1 1 1 1 ...

$ optimismscore: int 52 51 69 51 61 31 57 48 42 64 ...

$ minwage : Factor w/ 2 levels "no","yes": 1 1 2 1 2 1 1 1 1 1 ...

$ sex : Factor w/ 2 levels "female","male": 2 2 1 2 2 2 2 2 2 2 ...

$ income : num 37.3 42.3 73 33.8 57.3 ...

> hist(politics$optimismscore[politics$testtime=="post"])

|  |
| --- |
| setwd("~/Research/Reproducibility&Stats/data")  > politics<-read.csv("politics.csv")  > str(politics)  'data.frame': 132 obs. of 7 variables:  $ subject : int 1 2 3 4 5 6 7 8 9 10 ...  $ party : Factor w/ 3 levels "democrat","independent",..: 3 3 2 2 2 3 3 2 3 2 ...  $ testtime : Factor w/ 2 levels "post","pre": 2 2 2 2 2 2 2 2 2 2 ...  $ optimismscore: int 52 51 69 51 61 31 57 48 42 64 ...  $ minwage : Factor w/ 2 levels "no","yes": 1 1 2 1 2 1 1 1 1 1 ...  $ sex : Factor w/ 2 levels "female","male": 2 2 1 2 2 2 2 2 2 2 ...  $ income : num 37.3 42.3 73 33.8 57.3 ...  > politics$subject<-factor(politics$subject)  > politics$testtime<-factor(politics$testtime, levels=c("pre", "post"))  >  > str(politics)  'data.frame': 132 obs. of 7 variables:  $ subject : Factor w/ 66 levels "1","2","3","4",..: 1 2 3 4 5 6 7 8 9 10 ...  $ party : Factor w/ 3 levels "democrat","independent",..: 3 3 2 2 2 3 3 2 3 2 ...  $ testtime : Factor w/ 2 levels "pre","post": 1 1 1 1 1 1 1 1 1 1 ...  $ optimismscore: int 52 51 69 51 61 31 57 48 42 64 ...  $ minwage : Factor w/ 2 levels "no","yes": 1 1 2 1 2 1 1 1 1 1 ...  $ sex : Factor w/ 2 levels "female","male": 2 2 1 2 2 2 2 2 2 2 ...  $ income : num 37.3 42.3 73 33.8 57.3 ...  > summary(politics$optimismscore[politics$testtime=="post"])  Min. 1st Qu. Median Mean 3rd Qu. Max.  18.00 45.00 61.00 59.82 73.00 94.00  > hist(politics$optimismscore[politics$testtime=="post"])  > tab<-table(politics$party[politics$sex])  > tab  democrat independent republican  0 0 132  > chisq.test(politics$party,politics$sex)  Pearson's Chi-squared test  data: politics$party and politics$sex  X-squared = 1.4535, df = 2, p-value = 0.4835  > tab<-table(politics$party,politics$sex)  > tab    female male  democrat 28 24  independent 14 20  republican 24 22  > Polical affiliation is not independent of one's gender,Chi-Square(2)=1.45, p=.48  > t.test(politics$income[politics$sex=="male"],politics$income[politics$sex=="female"])  Welch Two Sample t-test  data: politics$income[politics$sex == "male"] and politics$income[politics$sex == "female"]  t = -2.2395, df = 125.17, p-value = 0.02689  alternative hypothesis: true difference in means is not equal to 0  95 percent confidence interval:  -15.9467513 -0.9844337  sample estimates:  mean of x mean of y  38.80751 47.27310  > library("dplyr")  Attaching package: ‘dplyr’  The following object is masked from ‘package:stats’:  filter  The following objects are masked from ‘package:base’:  intersect, setdiff, setequal, union  > temp<-politics[politics$sex]%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error: unknown column 'sex'  > temp<-politics[politics$sex=="male" & politics$sex=="female"]%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error: unknown column 'sex'  > View(politics)  > library("dplyr")  > temp<-politics[politics$income]%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in `[.data.frame`(politics, politics$income) :  undefined columns selected  > temp<-politics[politics$sex]%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error: unknown column 'sex'  > temp<-politics[politics$male&female]%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in `[.data.frame`(politics, politics$male & female) :  object 'female' not found  > temp<-politics&sex%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in eval(expr, envir, enclos) : object 'sex' not found  > temp<-politics(politics$income[politics$sex=="male"],politics$income[politics$sex=="female"])%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in eval(expr, envir, enclos) : could not find function "politics"  > temp<-politics(politics$income[politics$sex=="male" & politics$income[politics$sex=="female"])%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error: unexpected ')' in "temp<-politics(politics$income[politics$sex=="male" & politics$income[politics$sex=="female"])"  > temp<-politics(politics$income[politics$sex=="male"])(politics$income[politics$sex=="female"])%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in eval(expr, envir, enclos) : could not find function "politics"  > temp<-politics(politics$sex=="male"])(politics$sex=="female"])%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error: unexpected ']' in "temp<-politics(politics$sex=="male"]"  > temp<-politics(politics$sex=="male")(politics$sex=="female"])%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error: unexpected ']' in "temp<-politics(politics$sex=="male")(politics$sex=="female"]"  > temp<-politics(politics$sex=="male")(politics$sex=="female")%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in eval(expr, envir, enclos) : could not find function "politics"  > temp<-politics[politics$sex]%>%group\_by(sex)%>%summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error: unknown column 'sex'  > t.test(politics$optimism[politics$sex=="male"  + & politics$testtime=="post"],politics$optimism[politics$sex=="female" & politics$testtime=="post"])  Welch Two Sample t-test  data: politics$optimism[politics$sex == "male" & politics$testtime == and politics$optimism[politics$sex == "female" & politics$testtime == "post"] and "post"]  t = -0.30661, df = 63.971, p-value = 0.7601  alternative hypothesis: true difference in means is not equal to 0  95 percent confidence interval:  -10.476183 7.688304  sample estimates:  mean of x mean of y  59.12121 60.51515  > Males and females do not differ in optimism after watching AFHV, t(63.9)=-.30, p=.76.  Error: unexpected symbol in "Males and"  > library("dplyr")  > temp<-pols[pols$testtime=="post",]%>%group\_by(sex)%>%summarize(means=mean(optimismscore),  + sems=sd(optimismscore)/sqrt(length(optimismscore)))  Error in eval(expr, envir, enclos) : object 'pols' not found  > temp<-pols[pols$testtime=="post",]%>%group\_by(sex)%>%summarize(means=mean(optimismscore), sems=sd(optimismscore)/sqrt(length(optimismscore)))  Error in eval(expr, envir, enclos) : object 'pols' not found  > temp<-politics[politics$testime=="post",]%>%group\_by(sex)%>$summarize(means=mean(optimismscore),sems=sd(optimismscore)/sqrt(length(optimismscore)))  Error: unexpected input in "temp<-politics[politics$testime=="post",]%>%group\_by(sex)%>$summarize(means=mean(optimismscore),sems=sd(optimismscore)/sqrt(length(optimismscore)))"  > temp<-politicss[politics$testtime=="post"]%>%group\_by(sex)%>%summarize(means=mean(optimismscore),sems=sd(optimismscore)/sqrt(length(optimismscore)))  Error in eval(expr, envir, enclos) : object 'politicss' not found  > temp<-politics[politics$testtime=="pre",]%>%group\_by(sex)%>%summarize(means=mean(optimismscore),sems=sd(optimismscore)/sqrt(length(optimismscore)))  > library("ggplot2")  > f<-ggplot(temp,aes(x=factor(sex),y=means))+  + geom\_bar(stat="identity", color="black",fill=c("deeppink","deepskyblue2"))+  + geom\_errorbar(aes(ymax=means+sems, ymin=means-sems), width=.1)  > f  > f<-f+ggtitle("Video Optimism Scores by Sex")+  + labs(x="Sex", y="Posttest Optimism Scores\n(higher=more optimistic")+  + scale\_x\_discrete(breaks=c("female","male"),labels=c("Female","Male"))+  + theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+  + theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+  + theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  + theme(axis.text.x=element\_text(size=10,face="bold",color="black"))+  + theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+  + coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+  + theme(panel.border=element\_blank(), axis.line=element\_line())+  + theme(panel.grid.major.x=element\_blank())+  + theme(panel.grid.major.y=element\_line(color="darkgrey"))+  + theme(panel.grid.minor.y=element\_blank())  > f  > temp<-pols[pols$testtime=="post",]%>%group\_by(party,sex)%>%  + summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in eval(expr, envir, enclos) : object 'pols' not found  > library("gplots")  Attaching package: ‘gplots’  The following object is masked from ‘package:stats’:  lowess  > col1=col2hex("deeppink")  > col2=col2hex("deepskyblue2")  > f<-ggplot(temp, aes(x=party, y=means, fill=sex))+  + geom\_bar(stat="identity",position=position\_dodge())+  + scale\_fill\_manual(values=c(col1,col2),name="Sex",breaks=c("female","male"),labels=c("Female", "Male"))+  + theme(legend.key=element\_rect(color="black"))+  + geom\_errorbar(aes(ymax=means+sems, ymin=means-sems),width=.2,position=position\_dodge(.9))+  + ggtitle("Incomes by Sex and Political Affiliation")+  + labs(x="Political Party Affiliation",y="Income\n(thousands of dollars)")+  + scale\_x\_discrete(breaks=c("democrat","independent","republican"),labels=c("Democrat","Independent","Republican"))+  + theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+  + theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+  + theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  + theme(axis.text.x=element\_text(size=10,face="bold",color="black"))+  + theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+  + coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+  + theme(panel.border=element\_blank(),axis.line=element\_line())+  + theme(panel.grid.major.x=element\_blank())+  + theme(panel.grid.major.y=element\_line(color="darkgrey"))+  + theme(panel.grid.minor.y=element\_blank())+  + theme(legend.position=c(.2,.76))+  + theme(legend.background=element\_blank())+  + theme(legend.background=element\_rect(color="black"))+  + theme(legend.title=element\_blank())+  + theme(legend.title=element\_text(size=12))+  + theme(legend.title.align=.5)+  + theme(legend.text=element\_text(size=10,face="bold"))  > f  Error in eval(expr, envir, enclos) : object 'party' not found  > temp<-pols[pols$testtime=="post",]%>%group\_by(party,sex)%>%  + summarize(means=mean(income),sems=sd(income)/sqrt(length(income)))  Error in eval(expr, envir, enclos) : object 'pols' not found  > library("gplots")  > col1=col2hex("deeppink")  > col2=col2hex("deepskyblue2")  > f<-ggplot(temp, aes(x=party, y=means, fill=sex))+  + geom\_bar(stat="identity",position=position\_dodge())+  + scale\_fill\_manual(values=c(col1,col2),name="Sex",breaks=c("female","male"),labels=c("Female", "Male"))+  + theme(legend.key=element\_rect(color="black"))+  + geom\_errorbar(aes(ymax=means+sems, ymin=means-sems),width=.2,position=position\_dodge(.9))+  + ggtitle("Incomes by Sex and Political Affiliation")+  + labs(x="Political Party Affiliation",y="Income\n(thousands of dollars)")+  + scale\_x\_discrete(breaks=c("democrat","independent","republican"),labels=c("Democrat","Independent","Republican"))+  + theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+  + theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+  + theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  + theme(axis.text.x=element\_text(size=10,face="bold",color="black"))+  + theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+  + coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+  + theme(panel.border=element\_blank(),axis.line=element\_line())+  + theme(panel.grid.major.x=element\_blank())+  + theme(panel.grid.major.y=element\_line(color="darkgrey"))+  + theme(panel.grid.minor.y=element\_blank())+  + theme(legend.position=c(.2,.76))+  + theme(legend.background=element\_blank())+  + theme(legend.background=element\_rect(color="black"))+  + theme(legend.title=element\_blank())+  + theme(legend.title=element\_text(size=12))+  + theme(legend.title.align=.5)+  + theme(legend.text=element\_text(size=10,face="bold"))  > f  Error in eval(expr, envir, enclos) : object 'party' not found  > f<-ggplot(temp, aes(x=party, y=means, group=sex, color=sex))+  + geom\_line(size=1)+  + geom\_point(size=2)+  + scale\_color\_manual(values=c(col1,col2),name="Sex",breaks=c("female","male"),labels=c("Female", "Male"))+  + geom\_errorbar(aes(ymax=means+sems, ymin=means-sems),width=.2)+  + ggtitle("Incomes by Sex and Political Affiliation")+  + labs(x="Political Party Affiliation",y="Income\n(thousands of dollars)")+  + scale\_x\_discrete(breaks=c("democrat","independent","republican"),labels=c("Democrat","Independent","Republican"))+  + theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+  + theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+  + theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  + theme(axis.text.x=element\_text(size=10,face="bold",color="black"))+  + theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+  + coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+  + theme(panel.border=element\_blank(),axis.line=element\_line())+  + theme(panel.grid.major.x=element\_blank())+  + theme(panel.grid.major.y=element\_line(color="darkgrey"))+  + theme(panel.grid.minor.y=element\_blank())+  + theme(legend.position=c(.2,.76))+  + theme(legend.background=element\_blank())+  + theme(legend.background=element\_rect(color="black"))+  + theme(legend.title=element\_blank())+  + theme(legend.title=element\_text(size=12))+  + theme(legend.title.align=.5)+  + theme(legend.text=element\_text(size=10,face="bold"))  > f  Error in eval(expr, envir, enclos) : object 'party' not found  > View(politics)  > library("dplyr")  > temp<-pols[pols$testtime=="post",]%>%group\_by(sex)%>%summarize(means=mean(optimismscore),sems=sd(optimismscore)/sqrt(length(optimismscore)))  Error in eval(expr, envir, enclos) : object 'pols' not found  > library("ggplot2")  > f<-ggplot(temp,aes(x=factor(sex),y=means))+geom\_bar(stat="identity", color="black",fill=c("deeppink","deepskyblue2"))+geom\_errorbar(aes(ymax=means+sems, ymin=means-sems), width=.1)  > f  > f<-f+ggtitle("Video Optimism Scores by Sex")+labs(x="Sex", y="Posttest Optimism Scores\n(higher=more optimistic")+  + scaMale"))+  + theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+  Error: unexpected string constant in:  " scaMale"))+  theme(plot.title=element\_text(size=15,face=""  > theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  + theme(axis.text.x=element\_text(size=10,face="bold",color="ble\_x\_discrete(breaks=c("female","male"),labels=c("Female","lack"))+  Error: unexpected symbol in:  "theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  theme(axis.text.x=element\_text(size=10,face="bold",color="ble\_x\_discrete(breaks=c("female"  > theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+  + coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+  + theme(panel.border=element\_blank(), axis.line=element\_line())+  + theme(panel.grid.major.x=element\_blank())+  + theme(panel.grid.major.y=element\_line(color="darkgrey"))+  + theme(panel.grid.minor.y=element\_blank())  Error: Don't know how to add coord\_cartesian(ylim = c(min(temp$means) - 2 \* max(temp$sems), max(temp$means) + 2 \* max(temp$sems))) to a theme object  > library("dplyr")  > temp<-pols[pols$testtime=="post",]%>%group\_by(sex)%>%summarize(means=mean(optimismscore),sems=sd(optimismscore)/sqrt(length(optimismscore)))  Error in eval(expr, envir, enclos) : object 'pols' not found  > library("ggplot2")  > f<-ggplot(temp,aes(x=factor(sex),y=means))+geom\_bar(stat="identity", color="black",fill=c("deeppink","deepskyblue2"))+geom\_errorbar(aes(ymax=means+sems, ymin=means-sems), width=.1)  > f  > f<-f+ggtitle("Video Optimism Scores by Sex")+labs(x="Sex", y="Posttest Optimism Scores\n(higher=more optimistic")+scaMale"))theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  Error: unexpected string constant in "f<-f+ggtitle("Video Optimism Scores by Sex")+labs(x="Sex", y="Posttest Optimism Scores\n(higher=more optimistic")+scaMale"))theme(plot.title=element\_text(size=15,face=""  > theme(axis.text.x=element\_text(size=10,face="bold",color="ble\_x\_discrete(breaks=c("female","male"),labels=c("Female","lack"))+theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+theme(panel.border=element\_blank(), axis.line=element\_line())+theme(panel.grid.major.x=element\_blank())+theme(panel.grid.major.y=element\_line(color="darkgrey"))+theme(panel.grid.minor.y=element\_blank())  Error: unexpected symbol in "theme(axis.text.x=element\_text(size=10,face="bold",color="ble\_x\_discrete(breaks=c("female"  > library("dplyr")  > temp<-pols[pols$testtime=="post",]%>%group\_by(sex)%>%summarize(means=mean(optimismscore),sems=sd(optimismscore)/sqrt(length(optimismscore)))  Error in eval(expr, envir, enclos) : object 'pols' not found  > library("ggplot2")  > f<-ggplot(temp,aes(x=factor(sex),y=means))+geom\_bar(stat="identity", color="black",fill=c("deeppink","deepskyblue2"))+geom\_errorbar(aes(ymax=means+sems, ymin=means-sems), width=.1)  > f  > f<-f+ggtitle("Video Optimism Scores by Sex")+labs(x="Sex", y="Posttest Optimism Scores\n(higher=more optimistic")+  + scaMale"))+  + theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+  Error: unexpected string constant in:  " scaMale"))+  theme(plot.title=element\_text(size=15,face=""  > theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  + theme(axis.text.x=element\_text(size=10,face="bold",color="ble\_x\_discrete(breaks=c("female","male"),labels=c("Female","lack"))+  Error: unexpected symbol in:  "theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  theme(axis.text.x=element\_text(size=10,face="bold",color="ble\_x\_discrete(breaks=c("female"  > theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+  + coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+  + theme(panel.border=element\_blank(), axis.line=element\_line())+  + theme(panel.grid.major.x=element\_blank())+  + theme(panel.grid.major.y=element\_line(color="darkgrey"))+  + theme(panel.grid.minor.y=element\_blank())  Error: Don't know how to add coord\_cartesian(ylim = c(min(temp$means) - 2 \* max(temp$sems), max(temp$means) + 2 \* max(temp$sems))) to a theme object  > f  > f<-ggplot(temp, aes(x=party, y=means, group=sex, color=sex))+  + geom\_line(size=1)+  + geom\_point(size=2)+  + scale\_color\_manual(values=c(col1,col2),name="Sex",breaks=c("female","male"),labels=c("Female", "Male"))+  + geom\_errorbar(aes(ymax=means+sems, ymin=means-sems),width=.2)+  + ggtitle("Incomes by Sex and Political Affiliation")+  + labs(x="Political Party Affiliation",y="Income\n(thousands of dollars)")+  + scale\_x\_discrete(breaks=c("democrat","independent","republican"),labels=c("Democrat","Independent","Republican"))+  + theme(plot.title=element\_text(size=15,face="bold",vjust=.5))+  + theme(axis.title.x=element\_text(size=12,face="bold",vjust=-.25))+  + theme(axis.title.y=element\_text(size=12,face="bold",vjust=1))+  + theme(axis.text.x=element\_text(size=10,face="bold",color="black"))+  + theme(axis.text.y=element\_text(size=10,face="bold",color="black"))+  + coord\_cartesian(ylim=c(min(temp$means)-2\*max(temp$sems),max(temp$means)+2\*max(temp$sems)))+  + theme(panel.border=element\_blank(),axis.line=element\_line())+  + theme(panel.grid.major.x=element\_blank())+  + theme(panel.grid.major.y=element\_line(color="darkgrey"))+  + theme(panel.grid.minor.y=element\_blank())+  + theme(legend.position=c(.2,.76))+  + theme(legend.background=element\_blank())+  + theme(legend.background=element\_rect(color="black"))+  + theme(legend.title=element\_blank())+  + theme(legend.title=element\_text(size=12))+  + theme(legend.title.align=.5)+  + theme(legend.text=element\_text(size=10,face="bold"))  > f  Error in eval(expr, envir, enclos) : object 'party' not found  > f  Error in eval(expr, envir, enclos) : object 'party' not found  > summary(aov(optimismscore~testtime\*sex+Error(subject/testtime),data=pols))  Error in terms.formula(formula, "Error", data = data) :  object 'pols' not found  > summary(aov(optimismscore~testtime\*sex+Error(subject/testtime),data=politics))  Error: subject  Df Sum Sq Mean Sq F value Pr(>F)  sex 1 80 80.4 0.119 0.731  Residuals 64 43105 673.5  Error: subject:testtime  Df Sum Sq Mean Sq F value Pr(>F)  testtime 1 770.9 770.9 41.299 1.87e-08 \*\*\*  testtime:sex 1 0.9 0.9 0.049 0.825  Residuals 64 1194.7 18.7  ---  Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1  > summary(lm(optimismscore~testtime=="pre"+party,data=pols[pols$testtime=="post",]))  Error in is.data.frame(data) : object 'pols' not found  > summary(lm(optimismscore~testtime=="pre"+party,data=politics[politics$testtime=="post",]))  Error in lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :  0 (non-NA) cases  In addition: Warning message:  In Ops.factor("pre", party) : ‘+’ not meaningful for factors  > summary(lm(optimismscore~testtime+party,data=politics[politics$testtime=="post",]))  Error in `contrasts<-`(`\*tmp\*`, value = contr.funs[1 + isOF[nn]]) :  contrasts can be applied only to factors with 2 or more levels |
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