#analysis of WVS 2001

###Codes for WVS 2001

getwd()

setwd("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/WVS/2001")

library(readxl)

wvs2001 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/WVS/2001/testdata2.xlsx")

wvs2001 = as.data.frame(wvs2001)

library(psych)

library(tidyverse)

#https://www.datanovia.com/en/lessons/select-data-frame-columns-in-r/

wvs2001\_2 <- wvs2001 %>%select(V100 ,

V102 ,

V11 ,

V113 ,

V116 ,

V118 ,

V119 ,

V12 ,

V133 ,

V139 ,

V141 ,

V142 ,

V143 ,

V144 ,

V147 ,

V148 ,

V149 ,

V150 ,

V151 ,

V152 ,

V153 ,

V154 ,

V155 ,

V156 ,

V157 ,

V158 ,

V159 ,

V160C ,

V162 ,

V164 ,

V165 ,

V166 ,

V167 ,

V173 ,

V204 ,

V205 ,

V206 ,

V207 ,

V208 ,

V209 ,

V210 ,

V211 ,

V212 ,

V213 ,

V229 ,

V234 ,

V235 ,

V236 ,

V4 ,

V5 ,

V6 ,

V7 ,

V78 ,

V79 ,

V8 ,

V80 ,

V81 ,

V82 ,

V9 ,

V99)

#detach(wvs2001\_2)

attach(wvs2001\_2)

class(wvs2001\_2)

#subset middle class

#d <- as.numeric(c(1:5))

#d <- as.data.frame(d)

#d

#wvs2001\_2m <- subset(wvs2001\_2, V235>1 & V235<4)

#wvs2001\_2m = subset(wvs2001\_2m, select = -c(V235))

wvs2001\_2m = subset(wvs2001\_2)

#568 obs

#descriptive

desc <- describe(wvs2012\_2m)

desc2 <- desc%>%select(skew,kurtosis)

desc2

#V4 is highly skewed

mardia(wvs2019\_2, na.rm=TRUE, plot=TRUE)

out=outlier(wvs2019\_2, bad=5, cex=.5, plot=T, na.rm=TRUE, bg=c("blue"),

pch=21, ylab="D2", ylim=c(0,500))

#freq

#table(Q1)

#table(Q288)

#table(Q288R)

#table(Q287)

#crosstab

#xtabs(~Q288+Q287)

#cor

#wvs2019cor=cor(Q287, Q108)

#wvs2019cor

#wvs2019cor=cor(wvs2019)

#wvs2019cor

#http://www.sthda.com/english/wiki/correlation-test-between-two-variables-in-r

#testcor <- cor.test(wvs2019$Q288, wvs2019$Q287,

# method = "pearson")

#testcor

#mulcor <- cor(wvs2019[, c('Q288', 'Q287', 'Q1')])

#mulcor

#polychoric

#wvs19poly = polychoric(wvs2019\_2)

#pearson

wvs01cor = cor(wvs2001\_2m)

#visualize cor>.3

#library(qgraph)

#qgraph(wvs19cor,cut=.30,details=TRUE,posCol="darkgreen",negCol="red",

# labels=names(wvs19cor))

#correlation plot from the psych package to see corr > .30

#corPlot(wvs19cor,diag=F,zlim=c(.3,1),upper=F,numbers=TRUE,cex.axis=.5)

#DETERMINE NUMBER OF CORRELATIONS ABOVE .30

#also chekch for Singularity - too high correlation (r=1).

##create correlation matrix from raw data

wvs01cor = cor(wvs2001\_2m)

##compute number of coef>=.30 off-diagonal

BigR=sum(wvs01cor>=abs(.30) & wvs01cor<abs(1.0),na.rm=T)/2

print(BigR)

#BigR = 79

##Check for multicollinearity

#if determinant of cor matrix is >0.00001 then multicollinearity is probably not a problem

det(cor(wvs2001\_2m))

#KMO

KMO(wvs2001\_2)

#Bartlett's

cortest.bartlett(wvs2001\_2,n=568)

#consider:

#https://stackoverflow.com/questions/15215457/standardize-data-columns-in-r

##How many factors to retain?

#PATTERN MATRIX FOR SOLUTION WITH EIGHT

#FACTORS FROM PSYCH PACKAGE

f8=fa(wvs2001\_2m,nfactors=8,SMC=TRUE,min.err=0.001,max.iter=1000,fm="ml",rotate="none",n.obs=568)

f8out <- print(f8,sort=TRUE, digits=2)

#PARALLEL ANALYSIS (PA) WITH PSYCH PACKAGE

#PA with 500 repetitions

#For correlation matrix the n.pbs must be added: n.obs=152

#compare eigen of simulated and actual

pawvs01=fa.parallel(wvs2001\_2m,fa="pc",n.iter = 500,ylab="Eigenvalues",quant=.50)

print(pawvs01)

#suggests 12 factors

#fa="pc" - extraction method=PCA

#fa="fa" - extraction method=common factor extraction

#quant = comparison standard, here = 50th percentile

#only 1 component (eigenvalue=7.90) is sufficient

#MAP WITH PSYCH PACKAGE

vss(wvs2001\_2m,rotate="none", fm="pc", plot=FALSE, n.obs=568)

#The lowest MAP value identifies the number of factors to retain. In this

#case, MAP reaches a minimum at two factors

#lowest MAP=?

#indicates 4 to 5 factors

#SCREE PLOT WITH PSYCH PACKAGE

#display scree plot from both reduced and unreduced corr matrices

scree(wvs2001\_2m,pc=TRUE,factors=TRUE,hline="-1",main="Scree Plot")

#how many factors?

#scree = 2-3

#pa = 12

#MAP = 4 - 5

#Delete var with low loading first.

#Cutoff = .4 (consistent with 2019)

#################

# 6 factor model, promax rotation, ML extraction, save residuals

#missing data can be imputed with mean (impute="mean") or median

#(impute="median"). Default vaues for iteration (min.err, max.iter)

#and initial communality estimate (SMC)

#record output

#sink(file = "Out1.txt", split = TRUE, append = FALSE)

f6=fa(wvs2001\_2m,nfactors=6,rotate="promax",residuals=TRUE,SMC=TRUE,

missing=FALSE,fm="ml",n.obs=568)

print(f6,digits=3,sort=TRUE, cut=.399)

#record

sink(file = "Outf6.txt", split = TRUE, append = FALSE)

print(sort=TRUE,digits=3, cut=.399,f6$Structure)

sink()

#residual matrix

resd=residuals(f6,diag=FALSE,na.rm=TRUE)

print(resd,digits=3)

#next, count the number of residuals > .05. Can be changed to .10

BigR=sum(resd>abs(0.05), na.rm=T)

print(BigR)

#Total number of off-diagonal elements in the data matrix

totR=length(wvs2019\_2m)\*(length(wvs2019\_2m)-1)/2

print(totR)

#proportion of off-diagonal elements >.5 in residual matrix

sum(BigR/totR\*100)

#largest residual in the matrix

max(abs(resd),na.rm=TRUE)

#record output stop

sink(file = NULL)

unlink("Out1.txt")

#structure of matrix if desired

#save to file

sink(file = "Out1.txt", split = TRUE, append = FALSE)

print(sort=TRUE,digits=3, cut=.399,f6$Structure)

sink(file = NULL)

#decision:

#Remove vars with loading <.4, RUN

#Remove vars with loading <.5, RUN

#Try 4-factor model

#Try other or no retation

################################################################

################################################################

# 4 factor model, promax rotation, ML extraction, save residuals

####this was done. 3 factor seems better, no conceptual overlap off factors

#missing data can be imputed with mean (impute="mean") or median

#(impute="median"). Default vaues for iteration (min.err, max.iter)

#and initial communality estimate (SMC)

#remove vars with loading <.4

wvs2001\_2m = subset(wvs2001\_2m, select = c(V149 ,

V150 ,

V152 ,

V153 ,

V154 ,

V155 ,

V156 ,

V157 ,

V158 ,

V159 ,

V160C ,

V162 ,

V205 ,

V206 ,

V207 ,

V208 ,

V209 ,

V210 ,

V211 ,

V212 ,

V213 ,

V235))

#remove vars with loading <=.399

#run f3

f3=fa(wvs2001\_2m,nfactors=3,rotate = "promax",residuals=TRUE,SMC=TRUE,

missing=FALSE,fm="ml",n.obs=568)

f3

sink(file = "Outf3.txt", split = TRUE, append = FALSE)

print(sort=TRUE,digits=3, cut=.399,f3$Structure)

sink()

print(f3,digits=3,cut=.399, sort=TRUE)

print(sort=TRUE,digits=3, cut=0,f3)

#remove vars with loading <.3

#wvs2019\_2m = subset(wvs2019\_2m, select = -c(Q159, Q291G2, Q291G3, Q291P2, Q292A,

# Q292B, Q292C, Q292D, Q292F, Q292H))

wvs2001\_2m = subset(wvs2001\_2m, select = -c(V205, V235))

f2=fa(wvs2001\_2m,nfactors=2,rotate = "promax",residuals=TRUE,SMC=TRUE,

missing=FALSE,fm="ml",n.obs=568)

sink(file = "Outf2.txt", split = TRUE, append = FALSE)

print(sort=TRUE,digits=3, cut=.399,f2$Structure)

sink()

#factor scores

factor.scores(wvs2001\_2m, f3, method="tenBerge")

det(cor(wvs2019\_2m))

#KMO

KMO(wvs2019\_2m)

#Bartlett's

cortest.bartlett(wvs2019\_2m,n=737)

#mardia

mardia(wvs2019\_2m, na.rm=TRUE, plot=TRUE)

#residual matrix

resd=residuals(f3,diag=FALSE,na.rm=TRUE)

print(resd,digits=3)

#next, count the number of residuals > .05. Can be changed to .10

BigR=sum(resd>abs(0.05), na.rm=T)

print(BigR)

#Total number of off-diagonal elements in the data matrix

totR=length(wvs2019\_2m)\*(length(wvs2019\_2m)-1)/2

print(totR)

#proportion of off-diagonal elements >.05 in residual matrix

sum(BigR/totR\*100)

#largest residual in the matrix

max(abs(resd),na.rm=TRUE)

#structure of matrix if desired

#save to file

sink(file = "Out1.txt", split = TRUE, append = FALSE)

print(sort=TRUE,digits=3, cut=0,f3$Structure)

sink(file = NULL)

######################################################################

#########################################################################

# 1 factor model, promax rotation, ML extraction, save residuals

#missing data can be imputed with mean (impute="mean") or median

#(impute="median"). Default vaues for iteration (min.err, max.iter)

#and initial communality estimate (SMC)

f1=fa(wvs2019\_2m,nfactors=1,rotate="promax",residuals=TRUE,SMC=TRUE,

missing=FALSE,fm="ml",n.obs=1200)

print(f1,digits=3,sort=TRUE)

print(sort=TRUE,digits=3, cut=0,f1$Structure)

#residual matrix

resd=residuals(f3,diag=FALSE,na.rm=TRUE)

print(resd,digits=3)

#next, count the number of residuals > .05. Can be changed to .10

BigR=sum(resd>abs(0.05), na.rm=T)

print(BigR)

#Total number of off-diagonal elements in the data matrix

totR=length(wvs2019\_2m)\*(length(wvs2019\_2m)-1)/2

print(totR)

#proportion of off-diagonal elements >.05 in residual matrix

sum(BigR/totR\*100)

#largest residual in the matrix

max(abs(resd),na.rm=TRUE)

#structure of matrix if desired

#save to file

sink(file = "Out1.txt", split = TRUE, append = FALSE)

print(sort=TRUE,digits=3, cut=0,f3$Structure)

sink(file = NULL)

#charts

setwd("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Data Analysis/WVS/2001")

library(dplyr)

library(weights)

library(sjstats)

library(gmodels)

library(pollster)

library(readxl)

library(ggplot2)

attach(wvs1996\_2m)

detach(wvs1996\_2m)

tab <- table(wvs2001\_2m$V206)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V206 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V206

V206 <- V206 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Cheating on Taxes \nif You Have the Chance", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V206

ggsave("V206.jpeg", plot = V206)

tab <- table(wvs2001\_2m$V209)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V209 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V209

V209 <- V209 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Prostitution", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V209

ggsave("V209.jpeg", plot = V209)

tab <- table(wvs2001\_2m$V210)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V210 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V210

V210 <- V210 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Abortion", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V210

ggsave("V210.jpeg", plot = V210)

tab <- table(wvs2001\_2m$V211)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V211 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V211

V211 <- V211 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Divorce", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V211

ggsave("V211.jpeg", plot = V211)

tab <- table(wvs2001\_2m$V213)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V213 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V213

V213 <- V213 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Suicide", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V213

ggsave("V213.jpeg", plot = V213)

tab <- table(wvs2001\_2m$V152)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V152 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V152

V152 <- V152 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nPolice", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V152

ggsave("V152.jpeg", plot = V152)

tab <- table(wvs2001\_2m$V153)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V153 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V153

V153 <- V153 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nNational Government", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V153

ggsave("V153.jpeg", plot = V153)

tab <- table(wvs2001\_2m$V154)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V154 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V154

V154 <- V154 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nPolitical Parties", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V154

ggsave("V154.jpeg", plot = V154)

tab <- table(wvs2001\_2m$V155)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V155 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V155

V155 <- V155 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nCongress", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V155

ggsave("V155.jpeg", plot = V155)

tab <- table(wvs2001\_2m$V156)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V156 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V156

V156 <- V156 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nthe Civil Service", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V156

ggsave("V156.jpeg", plot = V156)

tab <- table(wvs2001\_2m$V157)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V157 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V157

V157 <- V157 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nMajor Companies", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V157

ggsave("V157.jpeg", plot = V157)

tab <- table(wvs2001\_2m$V158)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V158 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V158

V158 <- V158 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nEnvironmental Protection Movement", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V158

ggsave("V158.jpeg", plot = V158)

tab <- table(wvs2001\_2m$V149)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V149 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V149

V149 <- V149 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nthe Press", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V149

ggsave("V149.jpeg", plot = V149)

tab <- table(wvs2001\_2m$V150)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V150 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V150

V150 <- V150 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nthe Television", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V150

ggsave("V150.jpeg", plot = V150)

tab <- table(wvs2001\_2m$V159)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V159 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V159

V159 <- V159 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nthe Women's Movement", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V159

ggsave("V159.jpeg", plot = V159)

tab <- table(wvs2001\_2m$V160C)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V160C <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V160C

V160C <- V160C + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nthe ASEAN", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V160C

ggsave("V160C.jpeg", plot = V160C)

tab <- table(wvs2001\_2m$V162)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4), labels = c("A Great Deal", "Quite A Lot", "Not Very Much", "None At All"))

tab

V162 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V162

V162 <- V162 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Confidence in \nthe United Nations", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V162

ggsave("V162.jpeg", plot = V162)

tab <- table(wvs2001\_2m$V205)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V205 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V205

V205 <- V205 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Avoiding a Fare \non Public Transport", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V205

ggsave("V205.jpeg", plot = V205)

tab <- table(wvs2001\_2m$V207)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V207 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V207

V207 <- V207 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Someone \naccepting a bribe \nin the course of their duties", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V207

ggsave("V207.jpeg", plot = V207)

tab <- table(wvs2001\_2m$V208)

tab<-prop.table(tab)

tab <- as.data.frame.table(tab)

tab

tab$Var1 = factor(tab$Var1, levels=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10), labels = c("Never be Justified", "2", "3","4", "5", "6", "7", "8", "9", "Always be Justified"))

tab

V208 <- ggplot(tab, aes(y = Freq\*100, x = Var1)) + scale\_y\_continuous(limits = c(0,100))

V208

V208 <- V208 + geom\_bar(stat="identity", width = 0.8, position="dodge", fill="steel blue") +

labs(title="WVS 2001", subtitle="", caption="",

x = "Homsexuality", y = "Percent", fill = "Gender Focal \nPerson") +

theme(axis.text.x = element\_text(size=6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

geom\_text(aes(label=round(Freq, digits=3)\*100), size=2, position=position\_dodge(width=0.9), vjust=-0.25)

V208

ggsave("V208.jpeg", plot = V208)

###############

#Crosstabs

sink(file="wvs01xtabs.txt", split = TRUE, append = FALSE)

CrossTable(wvs2001\_2m$V11,wvs2001\_2m$V235, chisq = TRUE) #?

CrossTable(wvs2001\_2m$V80,wvs2001\_2m$V235, chisq = TRUE) #?

CrossTable(wvs2001\_2m$V81,wvs2001\_2m$V235, chisq = TRUE) #?

CrossTable(wvs2001\_2m$V204,wvs2001\_2m$V235, chisq = TRUE) #?

CrossTable(wvs2001\_2m$V206,wvs2001\_2m$V235, chisq = TRUE) #close

CrossTable(wvs2001\_2m$V209,wvs2001\_2m$V235, chisq = TRUE) #\*\*

CrossTable(wvs2001\_2m$V210,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V211,wvs2001\_2m$V235, chisq = TRUE) #\*\*

CrossTable(wvs2001\_2m$V212,wvs2001\_2m$V235, chisq = TRUE) #\*\*

CrossTable(wvs2001\_2m$V213,wvs2001\_2m$V235, chisq = TRUE) #\*\*

CrossTable(wvs2001\_2m$V236,wvs2001\_2m$V235, chisq = TRUE) #?

CrossTable(wvs2001\_2m$V148,wvs2001\_2m$V235, chisq = TRUE) #?

CrossTable(wvs2001\_2m$V151,wvs2001\_2m$V235, chisq = TRUE) #?

CrossTable(wvs2001\_2m$V152,wvs2001\_2m$V235, chisq = TRUE) #\*\*

CrossTable(wvs2001\_2m$V153,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V154,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V155,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V156,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V157,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V158,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V149,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V150,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V159,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V160C,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V162,wvs2001\_2m$V235, chisq = TRUE) #close

CrossTable(wvs2001\_2m$V205,wvs2001\_2m$V235, chisq = TRUE) #\*\*

CrossTable(wvs2001\_2m$V207,wvs2001\_2m$V235, chisq = TRUE) #

CrossTable(wvs2001\_2m$V208,wvs2001\_2m$V235, chisq = TRUE) #\*\*

sink()