Assignment 5 - COMM 290

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Goal: Evaluate whether Brett Kavanaugh’s confirmation to the Supreme Court of US, in light of the allegations of sexual assault, eroded the public confidence in the Supreme Court. We are particularly interested in investigating the possible erosion of trust among Democratic voters and women.

The survey recorded people’s trust in the Supreme Court directly before and directly after the confimation of B. Kavanaugh.

# Exercise 1

First load in the bk.dta data.

library(tidyverse)

## -- Attaching packages --------------------------------------------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.2 v purrr 0.3.4  
## v tibble 3.0.3 v dplyr 1.0.2  
## v tidyr 1.1.2 v stringr 1.4.0  
## v readr 1.3.1 v forcats 0.5.0

## -- Conflicts ------------------------------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(haven) # to read dta  
library(labelled) # to manipulate metadata  
library(psych) # for use of Croenbach's Alpha for inter-item reliability

##   
## Attaching package: 'psych'

## The following objects are masked from 'package:ggplot2':  
##   
## %+%, alpha

#bk = Brett K.  
bk<-read\_dta("bk.dta")

Each column tracks a rated response to a question regarding trust in the Supreme Court, or the gender / political learning of the survey responder.

### Step 1: Create the Outcome Variable

Create the outcome variable - “trust in the Supreme Court” - using the follow up survey questions coded in a21,a22,a23.

head(bk$a21) # 3 to 9 where 3 = strongly agree the SC can be trsuted to make right dec, 9 is strongly disagree

## <labelled<double>[6]>: The Supreme Court can usually be trusted to make decisions that are right for th  
## [1] NA 3 3 3 4 4  
##   
## Labels:  
## value label  
## 13 Strongly agree  
## 14 Agree  
## 15 Somewhat agree  
## 16 Neither agree nor disagree  
## 17 Somewhat disagree  
## 18 Disagree  
## 19 Strongly disagree

mean(bk$a21,na.rm=T) # pretty high trust in SC

## [1] 3.438949

head(bk$a22) # 3 to 9 where 3= strongly agree that most americans would disagree if the SC started making a lot of rulings most americans would disagree (npt a lot of trust) - need to code backwards!! gonna code it normally for now because the instructions and mi intuition says that the important part is cut off. TODO chekc with insructor or fiend

## <labelled<double>[6]>: If the Supreme Court started making a lot of rulings that most Americans disagre  
## [1] NA 4 4 6 3 4  
##   
## Labels:  
## value label  
## 13 Strongly agree  
## 14 Agree  
## 15 Somewhat agree  
## 16 Neither agree nor disagree  
## 17 Somewhat disagree  
## 18 Disagree  
## 19 Strongly disagree

mean(bk$a22,na.rm=T)

## [1] 4.734004

head(bk$a23) # 3 to 9 where 3 = strongly agree that I trust the SC to operate in the best interests of americans

## <labelled<double>[6]>: Generally speaking, I trust the Supreme Court to operate in the best interests o  
## [1] NA 4 2 4 5 4  
##   
## Labels:  
## value label  
## 13 Strongly agree  
## 14 Agree  
## 15 Somewhat agree  
## 16 Neither agree nor disagree  
## 17 Somewhat disagree  
## 18 Disagree  
## 19 Strongly disagree

str(bk$a22)

## dbl+lbl [1:4758] NA, 4, 4, 6, 3, 4, 7, NA, 7, 5, 5, 3, 6, 1, N...  
## @ label : chr "If the Supreme Court started making a lot of rulings that most Americans disagre"  
## @ format.stata: chr "%12.0g"  
## @ labels : Named num [1:7] 13 14 15 16 17 18 19  
## ..- attr(\*, "names")= chr [1:7] "Strongly agree" "Agree" "Somewhat agree" "Neither agree nor disagree" ...

mean(bk$a23,na.rm=T)

## [1] 3.452461

# to make the outcome variable

question - how to make an index? step 1 is rescale it? nake sure to reverse code if its in the opposite direction - see class 10 step 2 - measuring inter item realiability -see class 13 and hw 3 perhaps use row means to calculate it

rescaling section:

# need to recode to be between 0 and 1