Section: Reach (Pre-Test Demographics)

Summarizing Pre-Tests by Group

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

Click the **+c Insert** button to insert code chunks (or functions). Add documentation outside of the code chunks as reminders of what your code does.

When you click the **Knit** button, it compiles all of the code chunks and generates a document that includes both content as well as the output of any embedded R code chunks within the document. Use the **gear** icon to adjust settings (e.g., “show output only”) for each code chunk.

The shortcut key for “<-” is ALT + [dash] CTRL + ENTER will run the highlighted line(s) of code. The hashtag is code that is commented out.

# 0. First time: Create a new project with version control (Git) on the top right corner. Every time: select your existing project. Pull any changes from GitHub, using the Git tab in the Environment panel/window.

# 1. Find/Set the working directory, where you’ll import/export files.

getwd()

## [1] "C:/Users/Josephine/Documents/AYC/2021-02-25 PAYC PPT"

# Wherever this code is saved, the file(s) for your dataset(s) should be there too

# 2. Name & import your data frame, or set of information (like a .csv file of survey responses), as factor variables.

* I created a dataframe object (which I named “raw.df”) for each dataset that will read in the respective .csv files and convert categorical variables into factor variables.

raw.df <- read.csv("Participant Pre- Post-Test Survey2.csv", stringsAsFactors = TRUE)  
  
# Export .CSV from your survey platform and confirm numeric values, NOT choice text.   
# Make sure filters are turned on or off.

# 3. Clean the analytic dataset.

* I created an analytic dataset (which I named “ppt.df”) that will select/subset the data columns and remove informational header rows that are not survey responses.

(**1-based index**: R starts with the first row of obs. being “1”; 2:nrow means that your responses/obs. start on row 3 until the Nth row. Check your dataset to see which row the actual observations start.)

ppt.df <- raw.df[2:nrow(raw.df),c(12:18,20:68,76:114)] #11 obs, 95 variables  
# Confirm the number of obs and variables.  
  
names(ppt.df) <- c("Group Name", "Participant", "Time",  
 "Live in County",  
 "Home County",  
 "Birthdate",  
 "Grade",  
 "White",  
 "Black",  
 "Asian",  
 "Native American",  
 "Other Race",  
 "Hispanic",  
 "Language",  
 "Other Language",  
 "Gender not reported",  
 "Woman",  
 "Man",  
 "Transgender",  
 "Nonbinary/Does not identify",  
 "Other Gender",  
 "Sexual Identity",  
 "Other Sexual Identity",  
 "Oral Sex",  
 "Vaginal Sex",  
 "Anal Sex",  
 "Pregnancy",  
 "Sex using alcohol",  
 "Sex using drugs",  
 "Never had sex",  
 "Ever had sex",  
 "No barrier method",  
 "No birth control",  
 "EC",  
 "IUD",  
 "Implant",  
 "Shot",  
 "Ring",  
 "Patch",  
 "Pill",  
 "Barrier Method",  
 "Not sure",  
 "Prefer not to answer",  
 "Other Method",  
 "Group leader understood me",  
 "Group mates respect each other",  
 "I felt judged\*",  
 "Group leader knew the material",  
 "I understood the material",  
 "Group leader made the activities fun",  
 "I felt free to speak",  
 "I felt uncomfortable participating\*",  
 "Topics I will remember",  
 "Group did this well",  
 "Improvements",  
 "First name",  
 "Email address",  
 "Phone number",  
 "Future",  
 "Healthy Relationship",  
 "Dating Abuse",  
 "Consent",  
 "PrEP",  
 "abstinence-neither",  
 "abstinence-pregnancy",  
 "abstinence-STI",  
 "birth control-neither",  
 "birth control-pregnancy",  
 "birth control-STI",  
 "external condom-neither",  
 "external condom-pregnancy",  
 "external condom-STI",  
 "lambskin condom-neither",  
 "lambskin condom-pregnancy",  
 "lambskin condom-STI",  
 "internal condom-neither",  
 "internal condom-pregnancy",  
 "internal condom-STI",  
 "withdrawal-neither",  
 "withdrawal-pregnancy",  
 "withdrawal-STI",  
 "Store the condom",  
 "Open the package",  
 "Pinch the tip",  
 "Unroll the condom",  
 "Hold the base",  
 "STI infection",  
 "Water-based lubricants",  
 "EC up to 5 days",  
 "EC without prescription",  
 "Prepared to say no if not ready",  
 "Prepared to use a barrier method",  
 "Prepared to say no if no barrier method",  
 "Prepared to use birth control",  
 "Prepared to go to a doctor for birth control")

* Recode missing data:

library(naniar)

## Warning: package 'naniar' was built under R version 4.0.4

replace\_with\_na\_at(data = ppt.df,  
 .vars = c( "Oral Sex",  
 "Vaginal Sex",  
 "Anal Sex",  
 "Pregnancy",  
 "Sex using alcohol",  
 "Sex using drugs"),  
 condition = ~.x == 5) #"prefer not to answer"

## Group Name Participant Time Live in County Home County Birthdate  
## 2 DREAMCENTER030521 1 a a 05/05/1985  
## 3 Payc 1 Alamance America 01/10/2007  
## 4 payc 1 Alamance Alamance 10/16/2006  
## 5 PAYC 1 alamance Alamance 10/03/2008  
## 6 PAYC 1 North Carolina Alamance 03/04/2006  
## 7 Payc 1 Alamance Alamance 04/18/2008  
## 8 Payc 1 Alamance Alamance 07/22/2008  
## 9 Payc 1 Alamance Alamance 9/18/2008  
## 10 Payc022521 1 Alamance Alamance 8/23/2008  
## 11 pAyc 1 Alamance Alamance 01/08/2007  
## 12 Payc 1 Alamance Alamance 4/19/2008  
## 13 Payc 1 Alamance Alamance 01/10/2007  
## Grade White Black Asian Native American Other Race Hispanic Language  
## 2 3 0 0  
## 3 3 2 2 1  
## 4 3 2 4 0 1  
## 5 1 2 2 1  
## 6 4 2 2 1  
## 7 1 2 2 1  
## 8 2 2 2 1  
## 9 1 2 2 1  
## 10 2 2 0 0  
## 11 3 2 2 1  
## 12 2 2 2 1  
## 13 3 2 2 1  
## Other Language Gender not reported Woman Man Transgender  
## 2 0   
## 3 1   
## 4 1   
## 5 1   
## 6 1   
## 7 2   
## 8 2   
## 9 2   
## 10 2   
## 11 2   
## 12 2   
## 13 2   
## Nonbinary/Does not identify Other Gender Sexual Identity  
## 2 0  
## 3 2  
## 4 2  
## 5 2  
## 6 2  
## 7 2  
## 8 2  
## 9 2  
## 10 0  
## 11 2  
## 12 2  
## 13 2  
## Other Sexual Identity Oral Sex Vaginal Sex Anal Sex Pregnancy  
## 2 NA NA NA NA  
## 3 1 1 1 1  
## 4 1 1 1 1  
## 5 1 1 1 1  
## 6 1 1 1 1  
## 7 1 1 1 1  
## 8 1 1 1 1  
## 9 1 1 1 1  
## 10 NA NA NA NA  
## 11 1 1 1 1  
## 12 1 1 1 1  
## 13 1 1 1 1  
## Sex using alcohol Sex using drugs Never had sex Ever had sex  
## 2 NA NA   
## 3 1 1 0   
## 4 1 1 0   
## 5 1 1 0   
## 6 1 1 0   
## 7 1 1 0   
## 8 1 1 0   
## 9 1 1 0   
## 10 NA NA   
## 11 1 1   
## 12 1 1 0   
## 13 1 1 0   
## No barrier method No birth control EC IUD Implant Shot Ring Patch Pill  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10   
## 11   
## 12   
## 13   
## Barrier Method Not sure Prefer not to answer Other Method  
## 2 13   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 13   
## 11 12   
## 12   
## 13   
## Group leader understood me Group mates respect each other I felt judged\*  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 2 3 1  
## 11   
## 12   
## 13   
## Group leader knew the material I understood the material  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 3 3  
## 11   
## 12   
## 13   
## Group leader made the activities fun I felt free to speak  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 2 3  
## 11   
## 12   
## 13   
## I felt uncomfortable participating\* Topics I will remember  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 1 Everything   
## 11   
## 12   
## 13   
## Group did this well Improvements First name Email address Phone number  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 Communicate N/A   
## 11   
## 12   
## 13   
## Future  
## 2   
## 3 I wanna be a nurse   
## 4 I would like to be a cosmetologist and do hair and nails.  
## 5 my goal 9s to become a cosmetologist and I plan to have kids at the age 23  
## 6 I want to go to college Play basketball Cosmetologist Lawyer   
## 7 to have kids   
## 8 Not having sex   
## 9 Have kids  
## 10 Heathy  
## 11 Have a kid at 28  
## 12 I want to go to college and I don't want a relationship until I get out of college   
## 13 Go to college  
## Healthy Relationship Dating Abuse Consent PrEP abstinence-neither  
## 2   
## 3 4 5 2 2   
## 4 4 5 1 2   
## 5 4 5 3 3 0  
## 6 4 5 2 2   
## 7 4 5 3 4   
## 8 4 4 3 4 0  
## 9 1 2 3 4   
## 10 4 2 5 4 0  
## 11 2 5 2 4 0  
## 12 4 1 3 4   
## 13 4 5 2 3   
## abstinence-pregnancy abstinence-STI birth control-neither  
## 2   
## 3 2   
## 4 1 2   
## 5 0  
## 6 2   
## 7 1   
## 8   
## 9 1 0  
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## birth control-pregnancy birth control-STI external condom-neither  
## 2   
## 3 1   
## 4 1   
## 5 0  
## 6 1   
## 7 1   
## 8 1 2 0  
## 9   
## 10 0  
## 11 0  
## 12 1   
## 13 1   
## external condom-pregnancy external condom-STI lambskin condom-neither  
## 2   
## 3 1 0  
## 4 1 2   
## 5 0  
## 6 1   
## 7 1 0  
## 8   
## 9 1   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2   
## lambskin condom-pregnancy lambskin condom-STI internal condom-neither  
## 2   
## 3   
## 4 1   
## 5 0  
## 6 1   
## 7   
## 8 2   
## 9 1   
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## internal condom-pregnancy internal condom-STI withdrawal-neither  
## 2   
## 3 2   
## 4 1 2   
## 5   
## 6 1   
## 7 2   
## 8 1   
## 9 2   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2 0  
## withdrawal-pregnancy withdrawal-STI Store the condom Open the package  
## 2   
## 3 1 1 2  
## 4 1 1 2  
## 5 1 2 1  
## 6 1 3 5  
## 7 2 3 2  
## 8 1 2 2 1  
## 9 2 2 4  
## 10 5 3  
## 11 1 3  
## 12 2 1 2  
## 13 1 2  
## Pinch the tip Unroll the condom Hold the base STI infection  
## 2   
## 3 4 3 5 2  
## 4 3 5 4 2  
## 5 3 4 5 3  
## 6 1 4 2 2  
## 7 4 1 5 3  
## 8 5 4 3 2  
## 9 5 1 3 3  
## 10 4 2 1 2  
## 11 2 4 5 2  
## 12 3 4 5 2  
## 13 3 4 5 2  
## Water-based lubricants EC up to 5 days EC without prescription  
## 2   
## 3 1 3 1  
## 4 3 3 3  
## 5 1 1 3  
## 6 1 2 3  
## 7 3 3 3  
## 8 2 1 2  
## 9 3 3 3  
## 10 3 1 1  
## 11 3 3 3  
## 12 1 1 2  
## 13 1 1 1  
## Prepared to say no if not ready Prepared to use a barrier method  
## 2   
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 5 5  
## 7 3 3  
## 8 3 3  
## 9 3 3  
## 10 1 3  
## 11 3 3  
## 12 3 1  
## 13 3 3  
## Prepared to say no if no barrier method Prepared to use birth control  
## 2   
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 5 5  
## 7 3 2  
## 8 3 3  
## 9 3 3  
## 10 1 3  
## 11 3 3  
## 12 3 3  
## 13 3 3  
## Prepared to go to a doctor for birth control  
## 2   
## 3 3  
## 4 3  
## 5 3  
## 6 5  
## 7 2  
## 8 3  
## 9 3  
## 10 3  
## 11 3  
## 12 3  
## 13 3

replace\_with\_na\_at(data = ppt.df,  
 .vars = c("Prepared to say no if not ready",  
 "Prepared to use a barrier method",  
 "Prepared to say no if no barrier method",  
 "Prepared to use birth control",  
 "Prepared to go to a doctor for birth control"),  
 condition = ~.x == 4) #"not applicable to me"

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## 3 Payc 1 Alamance America 01/10/2007  
## 4 payc 1 Alamance Alamance 10/16/2006  
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## 2 3 0 0  
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## 4 3 2 4 0 1  
## 5 1 2 2 1  
## 6 4 2 2 1  
## 7 1 2 2 1  
## 8 2 2 2 1  
## 9 1 2 2 1  
## 10 2 2 0 0  
## 11 3 2 2 1  
## 12 2 2 2 1  
## 13 3 2 2 1  
## Other Language Gender not reported Woman Man Transgender  
## 2 0   
## 3 1   
## 4 1   
## 5 1   
## 6 1   
## 7 2   
## 8 2   
## 9 2   
## 10 2   
## 11 2   
## 12 2   
## 13 2   
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## 6 2  
## 7 2  
## 8 2  
## 9 2  
## 10 0  
## 11 2  
## 12 2  
## 13 2  
## Other Sexual Identity Oral Sex Vaginal Sex Anal Sex Pregnancy  
## 2 5 5 5 5  
## 3 4 4 4 4  
## 4 4 4 4 4  
## 5 4 4 4 4  
## 6 4 4 4 4  
## 7 4 4 4 4  
## 8 4 4 4 4  
## 9 4 4 4 4  
## 10 5 5 5 5  
## 11 4 4 4 4  
## 12 4 4 4 4  
## 13 4 4 4 4  
## Sex using alcohol Sex using drugs Never had sex Ever had sex  
## 2 5 5   
## 3 4 4 0   
## 4 4 4 0   
## 5 4 4 0   
## 6 4 4 0   
## 7 4 4 0   
## 8 4 4 0   
## 9 4 4 0   
## 10 5 5   
## 11 4 4   
## 12 4 4 0   
## 13 4 4 0   
## No barrier method No birth control EC IUD Implant Shot Ring Patch Pill  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10   
## 11   
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## 13   
## Barrier Method Not sure Prefer not to answer Other Method  
## 2 13   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 13   
## 11 12   
## 12   
## 13   
## Group leader understood me Group mates respect each other I felt judged\*  
## 2   
## 3   
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## 6   
## 7   
## 8   
## 9   
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## 7   
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## 9   
## 10 3 3  
## 11   
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## Group leader made the activities fun I felt free to speak  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 2 3  
## 11   
## 12   
## 13   
## I felt uncomfortable participating\* Topics I will remember  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 1 Everything   
## 11   
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## 13   
## Group did this well Improvements First name Email address Phone number  
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## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 Communicate N/A   
## 11   
## 12   
## 13   
## Future  
## 2   
## 3 I wanna be a nurse   
## 4 I would like to be a cosmetologist and do hair and nails.  
## 5 my goal 9s to become a cosmetologist and I plan to have kids at the age 23  
## 6 I want to go to college Play basketball Cosmetologist Lawyer   
## 7 to have kids   
## 8 Not having sex   
## 9 Have kids  
## 10 Heathy  
## 11 Have a kid at 28  
## 12 I want to go to college and I don't want a relationship until I get out of college   
## 13 Go to college  
## Healthy Relationship Dating Abuse Consent PrEP abstinence-neither  
## 2   
## 3 4 5 2 2   
## 4 4 5 1 2   
## 5 4 5 3 3 0  
## 6 4 5 2 2   
## 7 4 5 3 4   
## 8 4 4 3 4 0  
## 9 1 2 3 4   
## 10 4 2 5 4 0  
## 11 2 5 2 4 0  
## 12 4 1 3 4   
## 13 4 5 2 3   
## abstinence-pregnancy abstinence-STI birth control-neither  
## 2   
## 3 2   
## 4 1 2   
## 5 0  
## 6 2   
## 7 1   
## 8   
## 9 1 0  
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## birth control-pregnancy birth control-STI external condom-neither  
## 2   
## 3 1   
## 4 1   
## 5 0  
## 6 1   
## 7 1   
## 8 1 2 0  
## 9   
## 10 0  
## 11 0  
## 12 1   
## 13 1   
## external condom-pregnancy external condom-STI lambskin condom-neither  
## 2   
## 3 1 0  
## 4 1 2   
## 5 0  
## 6 1   
## 7 1 0  
## 8   
## 9 1   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2   
## lambskin condom-pregnancy lambskin condom-STI internal condom-neither  
## 2   
## 3   
## 4 1   
## 5 0  
## 6 1   
## 7   
## 8 2   
## 9 1   
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## internal condom-pregnancy internal condom-STI withdrawal-neither  
## 2   
## 3 2   
## 4 1 2   
## 5   
## 6 1   
## 7 2   
## 8 1   
## 9 2   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2 0  
## withdrawal-pregnancy withdrawal-STI Store the condom Open the package  
## 2   
## 3 1 1 2  
## 4 1 1 2  
## 5 1 2 1  
## 6 1 3 5  
## 7 2 3 2  
## 8 1 2 2 1  
## 9 2 2 4  
## 10 5 3  
## 11 1 3  
## 12 2 1 2  
## 13 1 2  
## Pinch the tip Unroll the condom Hold the base STI infection  
## 2   
## 3 4 3 5 2  
## 4 3 5 4 2  
## 5 3 4 5 3  
## 6 1 4 2 2  
## 7 4 1 5 3  
## 8 5 4 3 2  
## 9 5 1 3 3  
## 10 4 2 1 2  
## 11 2 4 5 2  
## 12 3 4 5 2  
## 13 3 4 5 2  
## Water-based lubricants EC up to 5 days EC without prescription  
## 2   
## 3 1 3 1  
## 4 3 3 3  
## 5 1 1 3  
## 6 1 2 3  
## 7 3 3 3  
## 8 2 1 2  
## 9 3 3 3  
## 10 3 1 1  
## 11 3 3 3  
## 12 1 1 2  
## 13 1 1 1  
## Prepared to say no if not ready Prepared to use a barrier method  
## 2 1 1  
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 4 4  
## 7 3 3  
## 8 3 3  
## 9 3 3  
## 10 2 3  
## 11 3 3  
## 12 3 2  
## 13 3 3  
## Prepared to say no if no barrier method Prepared to use birth control  
## 2 1 1  
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 4 4  
## 7 3 2  
## 8 3 3  
## 9 3 3  
## 10 2 3  
## 11 3 3  
## 12 3 3  
## 13 3 3  
## Prepared to go to a doctor for birth control  
## 2 1  
## 3 3  
## 4 3  
## 5 3  
## 6 4  
## 7 2  
## 8 3  
## 9 3  
## 10 3  
## 11 3  
## 12 3  
## 13 3

replace\_with\_na\_at(data = ppt.df,  
 .vars = c("Prepared to say no if not ready",  
 "Prepared to use a barrier method",  
 "Prepared to say no if no barrier method",  
 "Prepared to use birth control",  
 "Prepared to go to a doctor for birth control"),  
 condition = ~.x == 5) #"prefer not to answer"

## Group Name Participant Time Live in County Home County Birthdate  
## 2 DREAMCENTER030521 1 a a 05/05/1985  
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## 5 PAYC 1 alamance Alamance 10/03/2008  
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## 7 Payc 1 Alamance Alamance 04/18/2008  
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## 10 Payc022521 1 Alamance Alamance 8/23/2008  
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## 12 Payc 1 Alamance Alamance 4/19/2008  
## 13 Payc 1 Alamance Alamance 01/10/2007  
## Grade White Black Asian Native American Other Race Hispanic Language  
## 2 3 0 0  
## 3 3 2 2 1  
## 4 3 2 4 0 1  
## 5 1 2 2 1  
## 6 4 2 2 1  
## 7 1 2 2 1  
## 8 2 2 2 1  
## 9 1 2 2 1  
## 10 2 2 0 0  
## 11 3 2 2 1  
## 12 2 2 2 1  
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## Other Language Gender not reported Woman Man Transgender  
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## 3 1   
## 4 1   
## 5 1   
## 6 1   
## 7 2   
## 8 2   
## 9 2   
## 10 2   
## 11 2   
## 12 2   
## 13 2   
## Nonbinary/Does not identify Other Gender Sexual Identity  
## 2 0  
## 3 2  
## 4 2  
## 5 2  
## 6 2  
## 7 2  
## 8 2  
## 9 2  
## 10 0  
## 11 2  
## 12 2  
## 13 2  
## Other Sexual Identity Oral Sex Vaginal Sex Anal Sex Pregnancy  
## 2 5 5 5 5  
## 3 4 4 4 4  
## 4 4 4 4 4  
## 5 4 4 4 4  
## 6 4 4 4 4  
## 7 4 4 4 4  
## 8 4 4 4 4  
## 9 4 4 4 4  
## 10 5 5 5 5  
## 11 4 4 4 4  
## 12 4 4 4 4  
## 13 4 4 4 4  
## Sex using alcohol Sex using drugs Never had sex Ever had sex  
## 2 5 5   
## 3 4 4 0   
## 4 4 4 0   
## 5 4 4 0   
## 6 4 4 0   
## 7 4 4 0   
## 8 4 4 0   
## 9 4 4 0   
## 10 5 5   
## 11 4 4   
## 12 4 4 0   
## 13 4 4 0   
## No barrier method No birth control EC IUD Implant Shot Ring Patch Pill  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10   
## 11   
## 12   
## 13   
## Barrier Method Not sure Prefer not to answer Other Method  
## 2 13   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 13   
## 11 12   
## 12   
## 13   
## Group leader understood me Group mates respect each other I felt judged\*  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 2 3 1  
## 11   
## 12   
## 13   
## Group leader knew the material I understood the material  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 3 3  
## 11   
## 12   
## 13   
## Group leader made the activities fun I felt free to speak  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 2 3  
## 11   
## 12   
## 13   
## I felt uncomfortable participating\* Topics I will remember  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 1 Everything   
## 11   
## 12   
## 13   
## Group did this well Improvements First name Email address Phone number  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 Communicate N/A   
## 11   
## 12   
## 13   
## Future  
## 2   
## 3 I wanna be a nurse   
## 4 I would like to be a cosmetologist and do hair and nails.  
## 5 my goal 9s to become a cosmetologist and I plan to have kids at the age 23  
## 6 I want to go to college Play basketball Cosmetologist Lawyer   
## 7 to have kids   
## 8 Not having sex   
## 9 Have kids  
## 10 Heathy  
## 11 Have a kid at 28  
## 12 I want to go to college and I don't want a relationship until I get out of college   
## 13 Go to college  
## Healthy Relationship Dating Abuse Consent PrEP abstinence-neither  
## 2   
## 3 4 5 2 2   
## 4 4 5 1 2   
## 5 4 5 3 3 0  
## 6 4 5 2 2   
## 7 4 5 3 4   
## 8 4 4 3 4 0  
## 9 1 2 3 4   
## 10 4 2 5 4 0  
## 11 2 5 2 4 0  
## 12 4 1 3 4   
## 13 4 5 2 3   
## abstinence-pregnancy abstinence-STI birth control-neither  
## 2   
## 3 2   
## 4 1 2   
## 5 0  
## 6 2   
## 7 1   
## 8   
## 9 1 0  
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## birth control-pregnancy birth control-STI external condom-neither  
## 2   
## 3 1   
## 4 1   
## 5 0  
## 6 1   
## 7 1   
## 8 1 2 0  
## 9   
## 10 0  
## 11 0  
## 12 1   
## 13 1   
## external condom-pregnancy external condom-STI lambskin condom-neither  
## 2   
## 3 1 0  
## 4 1 2   
## 5 0  
## 6 1   
## 7 1 0  
## 8   
## 9 1   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2   
## lambskin condom-pregnancy lambskin condom-STI internal condom-neither  
## 2   
## 3   
## 4 1   
## 5 0  
## 6 1   
## 7   
## 8 2   
## 9 1   
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## internal condom-pregnancy internal condom-STI withdrawal-neither  
## 2   
## 3 2   
## 4 1 2   
## 5   
## 6 1   
## 7 2   
## 8 1   
## 9 2   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2 0  
## withdrawal-pregnancy withdrawal-STI Store the condom Open the package  
## 2   
## 3 1 1 2  
## 4 1 1 2  
## 5 1 2 1  
## 6 1 3 5  
## 7 2 3 2  
## 8 1 2 2 1  
## 9 2 2 4  
## 10 5 3  
## 11 1 3  
## 12 2 1 2  
## 13 1 2  
## Pinch the tip Unroll the condom Hold the base STI infection  
## 2   
## 3 4 3 5 2  
## 4 3 5 4 2  
## 5 3 4 5 3  
## 6 1 4 2 2  
## 7 4 1 5 3  
## 8 5 4 3 2  
## 9 5 1 3 3  
## 10 4 2 1 2  
## 11 2 4 5 2  
## 12 3 4 5 2  
## 13 3 4 5 2  
## Water-based lubricants EC up to 5 days EC without prescription  
## 2   
## 3 1 3 1  
## 4 3 3 3  
## 5 1 1 3  
## 6 1 2 3  
## 7 3 3 3  
## 8 2 1 2  
## 9 3 3 3  
## 10 3 1 1  
## 11 3 3 3  
## 12 1 1 2  
## 13 1 1 1  
## Prepared to say no if not ready Prepared to use a barrier method  
## 2 1 1  
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 NA NA  
## 7 3 3  
## 8 3 3  
## 9 3 3  
## 10 2 3  
## 11 3 3  
## 12 3 2  
## 13 3 3  
## Prepared to say no if no barrier method Prepared to use birth control  
## 2 1 1  
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 NA NA  
## 7 3 2  
## 8 3 3  
## 9 3 3  
## 10 2 3  
## 11 3 3  
## 12 3 3  
## 13 3 3  
## Prepared to go to a doctor for birth control  
## 2 1  
## 3 3  
## 4 3  
## 5 3  
## 6 NA  
## 7 2  
## 8 3  
## 9 3  
## 10 3  
## 11 3  
## 12 3  
## 13 3

replace\_with\_na\_at(data = ppt.df,  
 .vars = c( "Group leader understood me",  
 "Group mates respect each other",  
 "I felt judged\*",  
 "Group leader knew the material",  
 "I understood the material",  
 "Group leader made the activities fun",  
 "I felt free to speak",  
 "I felt uncomfortable participating\*"),  
 condition = ~.x == 4) #"prefer not to answer"

## Group Name Participant Time Live in County Home County Birthdate  
## 2 DREAMCENTER030521 1 a a 05/05/1985  
## 3 Payc 1 Alamance America 01/10/2007  
## 4 payc 1 Alamance Alamance 10/16/2006  
## 5 PAYC 1 alamance Alamance 10/03/2008  
## 6 PAYC 1 North Carolina Alamance 03/04/2006  
## 7 Payc 1 Alamance Alamance 04/18/2008  
## 8 Payc 1 Alamance Alamance 07/22/2008  
## 9 Payc 1 Alamance Alamance 9/18/2008  
## 10 Payc022521 1 Alamance Alamance 8/23/2008  
## 11 pAyc 1 Alamance Alamance 01/08/2007  
## 12 Payc 1 Alamance Alamance 4/19/2008  
## 13 Payc 1 Alamance Alamance 01/10/2007  
## Grade White Black Asian Native American Other Race Hispanic Language  
## 2 3 0 0  
## 3 3 2 2 1  
## 4 3 2 4 0 1  
## 5 1 2 2 1  
## 6 4 2 2 1  
## 7 1 2 2 1  
## 8 2 2 2 1  
## 9 1 2 2 1  
## 10 2 2 0 0  
## 11 3 2 2 1  
## 12 2 2 2 1  
## 13 3 2 2 1  
## Other Language Gender not reported Woman Man Transgender  
## 2 0   
## 3 1   
## 4 1   
## 5 1   
## 6 1   
## 7 2   
## 8 2   
## 9 2   
## 10 2   
## 11 2   
## 12 2   
## 13 2   
## Nonbinary/Does not identify Other Gender Sexual Identity  
## 2 0  
## 3 2  
## 4 2  
## 5 2  
## 6 2  
## 7 2  
## 8 2  
## 9 2  
## 10 0  
## 11 2  
## 12 2  
## 13 2  
## Other Sexual Identity Oral Sex Vaginal Sex Anal Sex Pregnancy  
## 2 5 5 5 5  
## 3 4 4 4 4  
## 4 4 4 4 4  
## 5 4 4 4 4  
## 6 4 4 4 4  
## 7 4 4 4 4  
## 8 4 4 4 4  
## 9 4 4 4 4  
## 10 5 5 5 5  
## 11 4 4 4 4  
## 12 4 4 4 4  
## 13 4 4 4 4  
## Sex using alcohol Sex using drugs Never had sex Ever had sex  
## 2 5 5   
## 3 4 4 0   
## 4 4 4 0   
## 5 4 4 0   
## 6 4 4 0   
## 7 4 4 0   
## 8 4 4 0   
## 9 4 4 0   
## 10 5 5   
## 11 4 4   
## 12 4 4 0   
## 13 4 4 0   
## No barrier method No birth control EC IUD Implant Shot Ring Patch Pill  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10   
## 11   
## 12   
## 13   
## Barrier Method Not sure Prefer not to answer Other Method  
## 2 13   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 13   
## 11 12   
## 12   
## 13   
## Group leader understood me Group mates respect each other I felt judged\*  
## 2 1 1 1  
## 3 1 1 1  
## 4 1 1 1  
## 5 1 1 1  
## 6 1 1 1  
## 7 1 1 1  
## 8 1 1 1  
## 9 1 1 1  
## 10 2 2 2  
## 11 1 1 1  
## 12 1 1 1  
## 13 1 1 1  
## Group leader knew the material I understood the material  
## 2 1 1  
## 3 1 1  
## 4 1 1  
## 5 1 1  
## 6 1 1  
## 7 1 1  
## 8 1 1  
## 9 1 1  
## 10 2 2  
## 11 1 1  
## 12 1 1  
## 13 1 1  
## Group leader made the activities fun I felt free to speak  
## 2 1 1  
## 3 1 1  
## 4 1 1  
## 5 1 1  
## 6 1 1  
## 7 1 1  
## 8 1 1  
## 9 1 1  
## 10 2 2  
## 11 1 1  
## 12 1 1  
## 13 1 1  
## I felt uncomfortable participating\* Topics I will remember  
## 2 1   
## 3 1   
## 4 1   
## 5 1   
## 6 1   
## 7 1   
## 8 1   
## 9 1   
## 10 2 Everything   
## 11 1   
## 12 1   
## 13 1   
## Group did this well Improvements First name Email address Phone number  
## 2   
## 3   
## 4   
## 5   
## 6   
## 7   
## 8   
## 9   
## 10 Communicate N/A   
## 11   
## 12   
## 13   
## Future  
## 2   
## 3 I wanna be a nurse   
## 4 I would like to be a cosmetologist and do hair and nails.  
## 5 my goal 9s to become a cosmetologist and I plan to have kids at the age 23  
## 6 I want to go to college Play basketball Cosmetologist Lawyer   
## 7 to have kids   
## 8 Not having sex   
## 9 Have kids  
## 10 Heathy  
## 11 Have a kid at 28  
## 12 I want to go to college and I don't want a relationship until I get out of college   
## 13 Go to college  
## Healthy Relationship Dating Abuse Consent PrEP abstinence-neither  
## 2   
## 3 4 5 2 2   
## 4 4 5 1 2   
## 5 4 5 3 3 0  
## 6 4 5 2 2   
## 7 4 5 3 4   
## 8 4 4 3 4 0  
## 9 1 2 3 4   
## 10 4 2 5 4 0  
## 11 2 5 2 4 0  
## 12 4 1 3 4   
## 13 4 5 2 3   
## abstinence-pregnancy abstinence-STI birth control-neither  
## 2   
## 3 2   
## 4 1 2   
## 5 0  
## 6 2   
## 7 1   
## 8   
## 9 1 0  
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## birth control-pregnancy birth control-STI external condom-neither  
## 2   
## 3 1   
## 4 1   
## 5 0  
## 6 1   
## 7 1   
## 8 1 2 0  
## 9   
## 10 0  
## 11 0  
## 12 1   
## 13 1   
## external condom-pregnancy external condom-STI lambskin condom-neither  
## 2   
## 3 1 0  
## 4 1 2   
## 5 0  
## 6 1   
## 7 1 0  
## 8   
## 9 1   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2   
## lambskin condom-pregnancy lambskin condom-STI internal condom-neither  
## 2   
## 3   
## 4 1   
## 5 0  
## 6 1   
## 7   
## 8 2   
## 9 1   
## 10 0  
## 11 0  
## 12 2   
## 13 1 2   
## internal condom-pregnancy internal condom-STI withdrawal-neither  
## 2   
## 3 2   
## 4 1 2   
## 5   
## 6 1   
## 7 2   
## 8 1   
## 9 2   
## 10 0  
## 11 0  
## 12 1   
## 13 1 2 0  
## withdrawal-pregnancy withdrawal-STI Store the condom Open the package  
## 2   
## 3 1 1 2  
## 4 1 1 2  
## 5 1 2 1  
## 6 1 3 5  
## 7 2 3 2  
## 8 1 2 2 1  
## 9 2 2 4  
## 10 5 3  
## 11 1 3  
## 12 2 1 2  
## 13 1 2  
## Pinch the tip Unroll the condom Hold the base STI infection  
## 2   
## 3 4 3 5 2  
## 4 3 5 4 2  
## 5 3 4 5 3  
## 6 1 4 2 2  
## 7 4 1 5 3  
## 8 5 4 3 2  
## 9 5 1 3 3  
## 10 4 2 1 2  
## 11 2 4 5 2  
## 12 3 4 5 2  
## 13 3 4 5 2  
## Water-based lubricants EC up to 5 days EC without prescription  
## 2   
## 3 1 3 1  
## 4 3 3 3  
## 5 1 1 3  
## 6 1 2 3  
## 7 3 3 3  
## 8 2 1 2  
## 9 3 3 3  
## 10 3 1 1  
## 11 3 3 3  
## 12 1 1 2  
## 13 1 1 1  
## Prepared to say no if not ready Prepared to use a barrier method  
## 2   
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 5 5  
## 7 3 3  
## 8 3 3  
## 9 3 3  
## 10 1 3  
## 11 3 3  
## 12 3 1  
## 13 3 3  
## Prepared to say no if no barrier method Prepared to use birth control  
## 2   
## 3 3 3  
## 4 3 3  
## 5 3 3  
## 6 5 5  
## 7 3 2  
## 8 3 3  
## 9 3 3  
## 10 1 3  
## 11 3 3  
## 12 3 3  
## 13 3 3  
## Prepared to go to a doctor for birth control  
## 2   
## 3 3  
## 4 3  
## 5 3  
## 6 5  
## 7 2  
## 8 3  
## 9 3  
## 10 3  
## 11 3  
## 12 3  
## 13 3

ppt.df[ppt.df==""] <- NA  
ppt.df$Hispanic[ppt.df$Hispanic=="0" | ppt.df$Hispanic=="2"] <- NA

#3a. Clean the dichotomous (CATA/MRdum) variables: - Create an object (called “cleanIt”) that performs a function to a vector, which serves as a placeholder for something like a column. In that function, convert the vector to a character variable. You have to convert this factor variable to a character variable first because you may see two types of labels (e.g., “1” and “NA”), but there could be more than 2 hidden levels in your factor variable. Where the variable is “NA” or a blank, replace with zero (0). Then convert the vector to a numeric variable that can be summed.

# SurveyMonkey Quirk: Even though each check in "Check all that apply" (multiple response dummies) is dichotomous or binary (i.e., zeroes and ones), selecting the "none of the above" or "prefer not to answer" option/column is marked as "zero". Also, the 4th option/column, if checked, is marked as "four". With dummy variables, zero = "no" and one = "yes", which helps with summing each option. The function below converts the CATA/MR into dummy variables. But sometimes, zero means yes. So convert those "yeses" to one. Then convert remaining blanks to zero  
  
#cleanIt <- function(vec){  
# chars <- as.character(vec)  
# chars[is.na(chars)] <- "0"  
# chars[chars==""] <- "0"  
# chars[chars!="0"] <- "1"  
# return(as.numeric(chars))  
#}  
  
cleanIt <- function(vec){  
 chars <- as.character(vec)  
 chars[chars!=""] <- "1" #if not blank (including zeroes), replace with "one"  
 chars[is.na(chars)] <- "0" #if missing, replace with zero  
 chars[chars==""] <- "0" #if blank, replace with zero  
 return(as.numeric(chars)) #convert values to numbers  
}

* Use list apply (lapply) to repeat the “cleanIt” function to those columns, i.e., your vectors.

ppt.df[8:11] <- lapply(ppt.df[8:11], cleanIt) #racial identity options  
ppt.df[13] <- lapply(ppt.df[13], cleanIt)  
ppt.df[16:20] <- lapply(ppt.df[16:20], cleanIt) #gender identity options  
ppt.df[30:43] <- lapply(ppt.df[30:43], cleanIt) #last time sex options  
ppt.df[64:81] <- lapply(ppt.df[64:81], cleanIt) #if used correctly Qs

# 3b. Clean the nominal (categorical, ordinal) variables:

* For each multiple choice statement, change the response values to factor, specify levels, and rename the value labels, based on the survey/codebook: (open both the dataset and the codebook/survey with question numbers and recode values to make sure the labels and levels are correct)

labelgrade <- c("6th Grade",  
 "7th Grade",  
 "8th Grade",  
 "9th Grade",  
 "10th Grade",  
 "11th Grade",  
 "12th Grade",  
 "GED Program",  
 "Technical Training or College",  
 "Not in school",  
 "Prefer not to answer")  
#not in the order of the paper survey so that it's in order for the scale's legend  
labelnafreq <- c("Prefer not to answer",  
 "Never",  
 "Not sure",  
 "Within the last 30 days",  
 "Ever (more than 30 days ago")  
labelnalikert <- c("Not applicable",  
 "Disagree",  
 "Not Sure",  
 "Agree",  
 "Prefer not to answer")  
labelfreq <- c("Never",  
 "Not sure",  
 "Within the last 30 days",  
 "Ever (more than 30 days ago")  
labellikert <- c("Disagree",  
 "Not Sure",  
 "Agree")  
  
#demographics  
  
# Convert column/variable to "date" class (%m = 2-digit month; %d = 2-digit day; %[capital]Y = 4-digit year)(https://www.statmethods.net/input/dates.html; https://www.statology.org/subset-by-date-range-in-r/)  
ppt.df$Birthdate <- as.Date(ppt.df$Birthdate, "%m/%d/%Y")  
  
# create a variable, called "age" in the dataframe "ppt.df" that is a calculated age in years, based on Q5 (P's DOB), using the age\_calc function in the eeptools library  
# install.packages("eeptools")  
library(eeptools)

## Loading required package: ggplot2

ppt.df$Age <- floor(age\_calc(ppt.df$Birthdate, units = "years")) #make sure your date variable is formatted  
  
ppt.df$Grade <- factor(ppt.df$Grade,  
 levels = c(1,2,3,4,5,6,7,8,9,10,11),  
 labels = labelgrade)  
ppt.df$Time <- factor(ppt.df$Time,  
 levels = c(1,2),  
 labels = c("Before", "After"))  
ppt.df$Language <- factor(ppt.df$Language,  
 levels = c(0,1,2),  
 labels = c("Prefer not to answer",  
 "English",  
 "Spanish"))  
ppt.df$`Sexual Identity` <- factor(ppt.df$`Sexual Identity`,  
 levels = c(0,1,2),  
 labels = c("Prefer not to answer",  
 "LGBQ",  
 "Straight"))  
#experiences  
  
#the levels are re-ordered to how I want them to appear in the legend with "prefer not to answer" on one end or the other of the Likert scale  
ppt.df$`Oral Sex` <- factor(ppt.df$`Oral Sex`,  
 levels = c(4,3,1,2),  
 labels = labelfreq,  
 ordered = FALSE)  
ppt.df$`Vaginal Sex` <- factor(ppt.df$`Vaginal Sex`,  
 levels = c(4,3,1,2),  
 labels = labelfreq,  
 ordered = FALSE)  
ppt.df$`Anal Sex` <- factor(ppt.df$`Anal Sex`,  
 levels = c(4,3,1,2),  
 labels = labelfreq,  
 ordered = FALSE)  
ppt.df$Pregnancy <- factor(ppt.df$Pregnancy,  
 levels = c(4,3,1,2),  
 labels = labelfreq,  
 ordered = FALSE)  
ppt.df$`Sex using alcohol` <- factor(ppt.df$`Sex using alcohol`,  
 levels = c(4,3,1,2),  
 labels = labelfreq,  
 ordered = FALSE)  
ppt.df$`Sex using drugs` <- factor(ppt.df$`Sex using drugs`,  
 levels = c(4,3,1,2),  
 labels = labelfreq,  
 ordered = FALSE)  
#thoughts  
  
ppt.df$`Prepared to say no if not ready` <- factor(ppt.df$`Prepared to say no if not ready`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`Prepared to use a barrier method` <- factor(ppt.df$`Prepared to use a barrier method`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`Prepared to say no if no barrier method` <- factor(ppt.df$`Prepared to say no if no barrier method`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`Prepared to use birth control` <- factor(ppt.df$`Prepared to use birth control`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`Prepared to go to a doctor for birth control` <- factor(ppt.df$`Prepared to go to a doctor for birth control`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
  
#group satisfaction  
  
ppt.df$`Group leader understood me` <- factor(ppt.df$`Group leader understood me`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`Group mates respect each other` <- factor(ppt.df$`Group mates respect each other`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`I felt judged\*` <- factor(ppt.df$`I felt judged`,  
 levels = c(3,2,1), # reverse-coded  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`Group leader knew the material` <- factor(ppt.df$`Group leader knew the material`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`I understood the material` <- factor(ppt.df$`I understood the material`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE )  
ppt.df$`Group leader made the activities fun` <- factor(ppt.df$`Group leader made the activities fun`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`I felt free to speak` <- factor(ppt.df$`I felt free to speak`,  
 levels = c(1,2,3),  
 labels = labellikert,  
 ordered = FALSE)  
ppt.df$`I felt uncomfortable participating\*` <- factor(ppt.df$`I felt uncomfortable participating`,  
 levels = c(3,2,1), # reverse-coded  
 labels = labellikert,  
 ordered = FALSE)

# 3c. Convert continuous variables from factor to numeric:

(Factor variables are stored as integer codes–not numeric value–to create levels (e.g., responses ranging from 10 to 12 are three levels). (<https://stackoverflow.com/questions/6328771/changing-values-when-converting-column-type-to-numeric>; <https://www.geeksforgeeks.org/convert-factor-to-numeric-and-numeric-to-factor-in-r-programming/>) Convert the variable from factor to character (e.g., a ten) and then to numeric.)

# Example:  
# ta.df$minutes <- as.numeric(as.character(ta.df$Q5))  
  
# Optional: Convert to hours  
# ta.df$hours <- ta.df$minutes/60

# 3d. Reverse-coded columns/variables:

<https://www.theanalysisfactor.com/easy-reverse-code/>

Convert the factor variable to numeric so that you can subtract it from a value to reverse code that value

# Example:  
# ppt.df$`I felt judged` <- as.numeric(as.character(ppt.df$`I felt judged`))  
# ppt.df$`I felt judged` <- 4-ppt.df$`I felt judged` # on an ordered scale of 1 to 3

# 4. Select/subset specific variables/columns or observations/rows.

# Optional: select the 1st through 3rd columns/variables and start them with Q and separate them with a space  
# myvars <- paste("Q", 1:3, sep="")  
# newdata <- mydata[myvars]  
# or only columns/variables 1 and 5 through 10  
# newdata <- mydata[c(1,5:10)]  
  
# subset all rows/observations that have a column/variable value of greater than or equal to 20 OR less than 10, keeping the column/variables that are named.  
# newdata <- subset(mydata, age >= 20 | age < 10,  
# select=c(ID, Weight))  
  
# subset all men over the age of 25, keeping columns/variables weight, income and all columns/variables between them).  
# newdata <- subset(mydata, sex=="m" & age > 25,  
# select=weight:income)  
  
#filter by group/section:  
ppt.df$`Group Name` <- tolower(ppt.df$`Group Name`) #lowercase that group name to standardize it  
  
#if group name is approximate; e.g., all groups for specific IO:  
library(data.table)  
group.df <- ppt.df[ppt.df$`Group Name` %like% "payc",] #change value for group name  
  
demgrp <- group.df[group.df$Time=="Before",c(1:23,96)]  
expgrp <- group.df[c(2,3,24:44)]  
thogrp <- group.df[c(3,91:95)]  
ksagrp <- group.df[c(2,3,59:90)]  
satgrp <- group.df[group.df$Time=="After",c(45:58)]  
  
#remove non-answers from ordinal scales  
experience <- expgrp[,3:8]  
experience <- na.omit(experience)  
  
thogrp <- na.omit(thogrp)

# 5. Compute frequencies and percentages for each multi-response category; categorical variable.

age <- data.frame(table(demgrp$Age))  
names(age) <- c("Demographics","Freq")  
grade <- data.frame(table(demgrp$Grade))  
names(grade) <- c("Demographics","Freq")  
  
mrdumgender <- data.frame(Freq=colSums(demgrp[16:20]))  
mrdumrace <- data.frame(Freq=colSums(demgrp[8:11]))  
mrdumhisp <- data.frame(Freq=colSums(demgrp[13]))  
mrdumlastsex <- data.frame(Freq=colSums(expgrp[9:22]))  
  
# how to combine with different number of columns? will need to manually create tables for MRDUMs  
  
gender <- data.frame(Demographics=c("Male","Female","Transgender","Does not identify","Gender not reported"),Freq=c(7,4,0,0,0))  
race <- data.frame(Demographics=c("White","Black","Asian","Alaska Native", "Native Hawaiian","Multiracial", "Race not Reported","Hispanic"),Freq=c(0,10,0,0,0,1,0,0))  
  
payc022521 <- rbind.data.frame(gender,race,age,grade)  
  
library(sjPlot)

## Learn more about sjPlot with 'browseVignettes("sjPlot")'.

tab\_df(payc022521,  
 title = "Reach for Group PAYC022521",  
 file = "PAYC022521 Demographics Table.doc")

Reach for Group PAYC022521

Demographics

Freq

Male

7

Female

4

Transgender

0

Does not identify

0

Gender not reported

0

White

0

Black

10

Asian

0

Alaska Native

0

Native Hawaiian

0

Multiracial

1

Race not Reported

0

Hispanic

0

12

6

14

4

15

1

6th Grade

3

7th Grade

3

8th Grade

4

9th Grade

1

10th Grade

0

11th Grade

0

12th Grade

0

GED Program

0

Technical Training or College

0

Not in school

0

Prefer not to answer

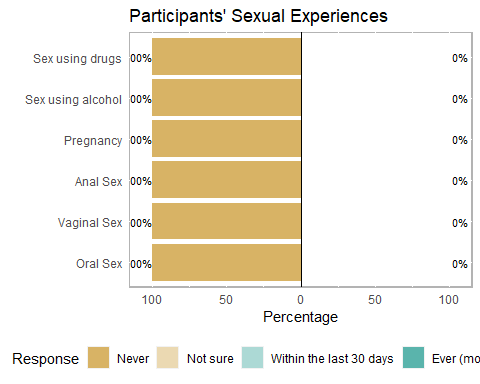
0

# 6. Plot and save diverging bar charts for each set of Likert statements.

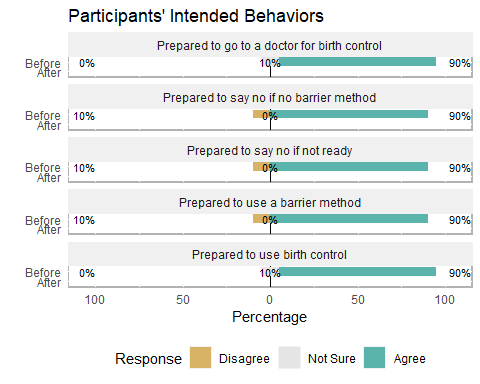
library(likert)

## Loading required package: xtable

experiencelkt <- likert(items=experience)  
plot(experiencelkt, positive.order = TRUE) + ggtitle("Participants' Sexual Experiences")



ggsave("PAYC022521 Experiences.png", width = 9, height = 2.5)  
  
thoughtlkt <- likert(thogrp[2:6], grouping = thogrp$Time)  
plot(thoughtlkt, group.order = c("Before","After")) + ggtitle("Participants' Intended Behaviors")



ggsave("PAYC022521 Thoughts.png", width = 9, height = 6)