

Generate clean US data

ddd

11/7/2020

- go back and delete dashes
- Mutual friends Tom edit
- decide what to do with unclassifiable race posts

NF

```
to.char.list <- c("participant_id", "post_tenure", "nf_group..y.n.", "event..y.n.")

participant.log.cdr1 <- read.csv("Data/RA Protocol/CDR/Wave 1 Participant Log.csv")

participant.log.cdr1$source <- "CDR 1"
participant.log.cdr1$participant_id <- as.character(participant.log.cdr1$participant_id)

newsfeed.df.cdr1 <- read.csv("Data/RA Protocol/CDR/Wave 1 NF.csv")
newsfeed.df.cdr1$source <- "CDR 1"

for (var in to.char.list) {
  newsfeed.df.cdr1[[var]] <- as.character(newsfeed.df.cdr1[[var]])
}

nrow(participant.log.cdr1) - length(unique(participant.log.cdr1$participant_id))

## [1] 0

participant.log.hdsl <- read.csv("Data/RA Protocol/HDSL/Facebook Study Master Sheet - HDSL - Participant Log.csv")

participant.log.hdsl$source <- "HDSL"
participant.log.hdsl$participant_id <- as.character(participant.log.hdsl$participant_id)

newsfeed.df.hdsl <- read.csv("Data/RA Protocol/HDSL/Facebook Study Master Sheet - HDSL - NF.csv")
newsfeed.df.hdsl$source <- "HDSL"

for (var in to.char.list) {
  newsfeed.df.hdsl[[var]] <- as.character(newsfeed.df.hdsl[[var]])
}

nrow(participant.log.hdsl) - length(unique(participant.log.hdsl$participant_id))

## [1] 0

participant.log.cdr2 <- read.csv("Data/RA Protocol/CDR/Wave 2 Participant Log.csv")
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participant.log.cdr2$source <- "CDR 2"
participant.log.cdr2$participant_id <- as.character(participant.log.cdr2$participant_id)

newsfeed.df.cdr2 <- read.csv("Data/RA Protocol/CDR/Wave 2 NF.csv")
newsfeed.df.cdr2$source <- "CDR 2"

for (var in to.char.list) {
  newsfeed.df.cdr2[[var]] <- as.character(newsfeed.df.cdr2[[var]])
}

nrow(participant.log.cdr2) - length(unique(participant.log.cdr2$participant_id))

```

```
## [1] 0
```

```

participant.log.cdr3 <- read.csv("Data/RA Protocol/CDR/Wave 3 Participant Log.csv")

participant.log.cdr3$source <- "CDR 3"
participant.log.cdr3$participant_id <- as.character(participant.log.cdr3$participant_id)

newsfeed.df.cdr3 <- read.csv("Data/RA Protocol/CDR/Wave 3 NF.csv")
newsfeed.df.cdr3$source <- "CDR 3"

for (var in to.char.list) {
  if(var %in% colnames(newsfeed.df.cdr3)) {
    newsfeed.df.cdr3[[var]] <- as.character(newsfeed.df.cdr3[[var]])
  }
}

nrow(participant.log.cdr3) - length(unique(participant.log.cdr3$participant_id))

```

```
## [1] 0
```

```

participant.log.cdr4 <- read.csv("Data/RA Protocol/CDR/Wave 4 Participant Log.csv")

participant.log.cdr4$source <- "CDR 4"
participant.log.cdr4$participant_id <- as.character(participant.log.cdr4$participant_id)

newsfeed.df.cdr4 <- read.csv("Data/RA Protocol/CDR/Wave 4 NF.csv")
newsfeed.df.cdr4$source <- "CDR 4"

for (var in to.char.list) {
  if(var %in% colnames(newsfeed.df.cdr3)) {
    newsfeed.df.cdr4[[var]] <- as.character(newsfeed.df.cdr4[[var]])
  }
}

nrow(participant.log.cdr4) - length(unique(participant.log.cdr4$participant_id))

```

```
## [1] 0
```

```

newsfeed.combined.raw <- bind_rows(newsfeed.df.cdr1,
                                   newsfeed.df.hds1,
                                   newsfeed.df.cdr2,
                                   newsfeed.df.cdr3,
                                   newsfeed.df.cdr4)

```

```
p.log.combined.raw <- bind_rows(participant.log.cdr1,
                                participant.log.hdsl,
                                participant.log.cdr2,
                                participant.log.cdr3,
                                participant.log.cdr4)

newsfeed.combined.raw <- newsfeed.combined.raw %>% filter(participant_id != "")
p.log.combined.raw <- p.log.combined.raw %>% filter(participant_id != "")

merged.combined.raw <- merge(p.log.combined.raw, newsfeed.combined.raw, by = c("participant_id", "source"),
                             all = TRUE)

(length(unique(newsfeed.combined.raw$participant_id)) - length(unique(merged.combined.raw$participant_id))) /
length(unique(newsfeed.combined.raw$participant_id))

## [1] 0.03901734

nrow(p.log.combined.raw)

## [1] 692

(nrow(newsfeed.combined.raw) - nrow(merged.combined.raw)) / nrow(newsfeed.combined.raw)

## [1] 0.03847338

table(p.log.combined.raw$source)

##
## CDR 1 CDR 2 CDR 3 CDR 4 HDSL
## 249 64 125 52 202

# delete useless columns
merged.combined.raw$X <- NULL
merged.combined.raw$X.1 <- NULL
merged.combined.raw$X.2 <- NULL
merged.combined.raw$Mutual.Friends..Tom.Edit. <- NULL

# ignore the phantom row if there's no RA_id
merged.combined.raw <- merged.combined.raw %>% filter(RA_id != "")

# remove commas and safely convert factor to numeric
merged.combined.raw$total_friends <- as.numeric(gsub(",", "", merged.combined.raw$total_friends))
#as.numeric(levels(participant.log$total_friends))[participant.log$total_friends] ... if it happens

# deal with gender variations
merged.combined.raw$subject_gender_RA <- tolower(merged.combined.raw$subject_gender_RA)

# deal with race variations
merged.combined.raw$subject_race_RA <- tolower(merged.combined.raw$subject_race_RA)

# ignore phantom rows
merged.combined.raw <- merged.combined.raw[!is.na(merged.combined.raw$preference..1.7.) & !is.na(merged.combined.raw$RA_id),]

# clean up names
colnames(merged.combined.raw) <- c("participant.id",
                                   "source",
                                   "RA_id",
                                   "date",
                                   "total_friends",
                                   "total_friends_1",
                                   "total_friends_2",
                                   "total_friends_3",
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        "start_time",
        "end_time",
        "subject_race_RA",
        "subject_gender_RA",
        "total_friends",
        "p_log_notes",
        "manual_flag_p_log",
        "study_about",

        "nf.order",
        "preference",
        "post.tenure",
        "tenure.units",
        "human",
        "nf.group",
        "unrest",
        "event",
        "poster.nf.race.1.ra",
        "poster.nf.race.2.ra",
        "poster.nf.gender",
        "nf.ra.notes",
        "manual_flag_nf_log",
        "familiarity",
        "relationship",
        "common.friends"
    )

merged.combined.raw$poster.nf.race.1.ra <- tolower(merged.combined.raw$poster.nf.race.1.ra)
merged.combined.raw$poster.nf.race.2.ra <- tolower(merged.combined.raw$poster.nf.race.2.ra)
merged.combined.raw$poster.nf.gender <- tolower(merged.combined.raw$poster.nf.gender)

# drop more phantom rows

merged.combined.raw <- merged.combined.raw %>% filter(poster.nf.race.1.ra != 'wjoye')

merged.combined.raw$poster.nf.race.1.ra <- ifelse(merged.combined.raw$poster.nf.race.1.ra %in% c("black", "white", "other"),
merged.combined.raw$poster.nf.race.1.ra <- ifelse(merged.combined.raw$poster.nf.race.1.ra %in% c("asian", "hispanic", "other"),
merged.combined.raw$race.in.group <- ((merged.combined.raw$poster.nf.race.1.ra == merged.combined.raw$poster.nf.race.2.ra) &&
merged.combined.raw$gender.in.group <- merged.combined.raw$poster.nf.gender == merged.combined.raw$subject_race_RA)

merged.combined.raw <- merged.combined.raw %>% filter(subject_race_RA != "")
merged.combined.raw <- merged.combined.raw %>% filter(preference <= 7)

merged.combined.raw <- merged.combined.raw %>% filter(nf.order <= 60)

merged.combined.raw$date <- paste0(merged.combined.raw$date, "/2020")
merged.combined.raw$date <- mdy(merged.combined.raw$date)

merged.combined.raw$primary.id <- paste0(merged.combined.raw$date, merged.combined.raw$participant.id)

length(unique(merged.combined.raw$primary.id))

```

```
## [1] 662

to.missing <- c("", "`", "rs", "Years", ",")
to.mins <- c("m", "maleinutes", "min", "mins", "minutes", "Minutes", "minw")
to.hours <- c("hours", "Hours")
to.days <- c("days", "Days", "day", "fays")

merged.combined.raw$tenure.units <- as.character(merged.combined.raw$tenure.units)

merged.combined.raw$tenure.units <- ifelse(merged.combined.raw$tenure.units %in% to.missing,
                                          NA,
                                          merged.combined.raw$tenure.units)

merged.combined.raw$tenure.units <- ifelse(merged.combined.raw$tenure.units %in% to.mins,
                                          "mins",
                                          merged.combined.raw$tenure.units)

merged.combined.raw$tenure.units <- ifelse(merged.combined.raw$tenure.units %in% to.hours,
                                          "hours",
                                          merged.combined.raw$tenure.units)

merged.combined.raw$tenure.units <- ifelse(merged.combined.raw$tenure.units %in% to.days,
                                          "days",
                                          merged.combined.raw$tenure.units)

merged.combined.raw$post.tenure <- as.numeric(as.character(merged.combined.raw$post.tenure))

## Warning: NAs introduced by coercion
# clean up
merged.combined.raw$nf.group <- as.numeric(as.character(merged.combined.raw$nf.group))

## Warning: NAs introduced by coercion
merged.combined.raw$nf.group <- with(merged.combined.raw, ifelse(nf.group %in% 0:1,
                                                                nf.group,
                                                                NA))

write.csv(merged.combined.raw, file = "Temp/Clean US Data NF.csv")
```

PYMK

```
pymk.df <- read.csv("Data/RA Protocol/CDR/PYMK.csv")
pymk.df$source <- "CDR 1"

pymk.df.hdsl <- read.csv("Data/RA Protocol/HDSL/Facebook Study Master Sheet - HDSL - PYMK.csv")
pymk.df.hdsl$source <- "HDSL"

pymk.combined.raw <- bind_rows(pymk.df.hdsl,
                              pymk.df)

pymk.combined.raw <- pymk.combined.raw[!is.na(pymk.combined.raw$familiarity..1.7.) & !is.na(pymk.combined.raw$source)]

# clean up names
```

```

colnames(pymk.combined.raw) <- c("participant_id",
                                "pymk.order",
                                "familiarity",
                                "mutual.friends",
                                "poster.pymk.race.1.ra",
                                "poster.pymk.race.2.ra",
                                "poster.pymk.gender",
                                "pymk.ra.notes",
                                "manual_flag",
                                "source")

pymk.combined.raw$poster.pymk.race.1.ra <- tolower(pymk.combined.raw$poster.pymk.race.1.ra)
pymk.combined.raw$poster.pymk.race.2.ra <- tolower(pymk.combined.raw$poster.pymk.race.2.ra)
pymk.combined.raw$poster.pymk.gender <- tolower(pymk.combined.raw$poster.pymk.gender)

# drop more phantom rows

pymk.combined.raw <- pymk.combined.raw %>% filter(participant_id != "")

merged.combined.raw <- merge(p.log.combined.raw, pymk.combined.raw, by = c("participant_id", "source"))

merged.combined.raw$poster.pymk.race.1.ra <- ifelse(merged.combined.raw$poster.pymk.race.1.ra %in%
merged.combined.raw$poster.pymk.race.2.ra <- ifelse(merged.combined.raw$poster.pymk.race.2.ra %in%

merged.combined.raw$subject_race_RA <- tolower(merged.combined.raw$subject_race_RA)
merged.combined.raw$subject_gender_RA <- tolower(merged.combined.raw$subject_gender_RA)

merged.combined.raw$race.in.group <- ((merged.combined.raw$poster.pymk.race.1.ra == merged.combined.r
merged.combined.raw$gender.in.group <- merged.combined.raw$poster.pymk.gender == merged.combined.raw$su

merged.combined.raw$date <- paste0(merged.combined.raw$date, "/2020")
merged.combined.raw$date <- mdy(merged.combined.raw$date)

merged.combined.raw$primary.id <- paste0(merged.combined.raw$date, merged.combined.raw$participant_id)

merged.combined.raw <- merged.combined.raw %>% filter(familiarity <= 7)
merged.combined.raw <- merged.combined.raw %>% filter(!is.na(pymk.order))

write.csv(merged.combined.raw, file = "Temp/Clean US Data PYMK.csv")

dim(merged.combined.raw)

## [1] 25052    23

length(unique(merged.combined.raw$participant_id))

## [1] 417

```

Recent

```

recent.cdr.1 <- read.csv("Data/RA Protocol/CDR/Recent 1.csv")
recent.cdr.1$source <- "CDR 2"

recent.cdr.2 <- read.csv("Data/RA Protocol/CDR/Recent 2.csv")
recent.cdr.2$source <- "CDR 4"

recent.combined.raw <- bind_rows(recent.cdr.1, recent.cdr.2)

recent.combined.raw <- recent.combined.raw[!is.na(recent.combined.raw$react) & !is.na(recent.combined.r

# clean up names
colnames(recent.combined.raw) <- c("participant_id",
    "recent.order",
    "react",
    "comment",
    "post_tenure",
    "tenure_units",
    "human",
    "poster.recent.race",
    "poster.recent.gender",
    "manual_diag",
    "notes",
    "source")

recent.combined.raw$poster.recent.race <- tolower(recent.combined.raw$poster.recent.race)
recent.combined.raw$poster.recent.gender <- tolower(recent.combined.raw$poster.recent.gender)

# drop more phantom rows
recent.combined.raw <- recent.combined.raw %>% filter(participant_id != "")
recent.combined.raw$participant_id <- as.character(recent.combined.raw$participant_id)
recent.combined.raw <- merge(p.log.combined.raw, recent.combined.raw, by = c("participant_id", "source"))

recent.combined.raw$poster.recent.race <- ifelse(recent.combined.raw$poster.recent.race %in% c("asian", "black", "white", "other"),
    recent.combined.raw$poster.recent.race, "other")

recent.combined.raw$subject_race_RA <- tolower(recent.combined.raw$subject_race_RA)
recent.combined.raw$subject_gender_RA <- tolower(recent.combined.raw$subject_gender_RA)

recent.combined.raw$race.in.group <- ((recent.combined.raw$poster.recent.race == recent.combined.raw$subject_race_RA) &
    recent.combined.raw$gender.in.group <- recent.combined.raw$poster.recent.gender == recent.combined.raw$subject_gender_RA)

write.csv(recent.combined.raw, file = "Temp/Clean US Data Recent.csv")

length(unique(recent.combined.raw$participant_id))

```

```
## [1] 103
```

Qualtrics data

```

nf.data.raw <- read.csv("Temp/Clean US Data NF.csv")
pymk.data.raw <- read.csv("Temp/Clean US Data PYMK.csv")

nf.data <- nf.data.raw %>% group_by(primary.id,

```

```

        subject_gender_RA,
        subject_race_RA,
        source,
        total_friends) %>% dplyr::summarise(recorded.posts = max(nf.order, na.rm = T),
                                           mean.rating = mean(preference, na.rm = T),
                                           sd.rating = sd(preference, na.rm = T),
                                           median.rating = median(preference, na.rm = T))

## `summarise()` regrouping output by 'primary.id', 'subject_gender_RA', 'subject_race_RA', 'source' (only if
pymk.data <- pymk.data.raw %>% group_by(primary.id) %>% dplyr::summarise(pymk.recorded.posts = max(pymk.order, na.rm = T),
                              pymk.mean.rating = mean(familiarity, na.rm = T),
                              pymk.sd.rating = sd(familiarity, na.rm = T),
                              pymk.median.rating = median(familiarity, na.rm = T))

## `summarise()` ungrouping output (override with `.groups` argument)
nf.data <- nf.data %>% dplyr::rename(uni.id = primary.id)

qualtrics1 <- read.csv("Data/Self-Assessments/FB Standard.csv")
qualtrics2 <- read.csv("Data/Self-Assessments/FB Network Structure.csv")

combined.qualtrics <- bind_rows(qualtrics1, qualtrics2)

combined.qualtrics$date <- date(combined.qualtrics$StartDate)

## Warning: tz(): Don't know how to compute timezone for object of class factor;
## returning "UTC". This warning will become an error in the next major version of
## lubridate.
combined.qualtrics <- combined.qualtrics %>% filter(Status == "IP Address" &
                                                    Finished == "True" &
                                                    Q2 != "")

combined.qualtrics$primary.id <- paste0(combined.qualtrics$date, combined.qualtrics$subject_id)

merged <- merge(combined.qualtrics, nf.data, by.x = "primary.id", by.y = "uni.id", all.x = F, all.y = T)

merged <- merge(merged, pymk.data, by = "primary.id", all.x = T, all.y = F)

merged <- merged %>% dplyr::rename(self.race = Q3,
                                self.race.free = Q4,
                                gender = Q5,
                                age = Q6,
                                education = Q7,
                                covid.usage = Q9,
                                last.login = Q10,
                                pre.covid.usage = Q11)

merged$self.race <- as.character(merged$self.race)
merged$self.race <- ifelse(grepl(",", merged$self.race), "Two or more", merged$self.race)

dim(merged)

## [1] 663 43

```



```
write.csv(merged, file = "Temp/Clean US qualtrics data.csv")
```