Feedback MTurk Study

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Introduction

Load Data

```
# ?register_google
# register_google(key = "AIzaSyCTk2a5vIEqcvgz9KmQmItoNF7J8_hiMMk")
#
# #uses Google API to obtain location data based on longitude and latitude....dont use unless necessary
# d_respondents_only[ , c("housenumber", "street", "city", "county", "state", "zip", "country") := revg
# #
# head(d_respondents_only)
# #
# #
# fwrite(d_respondents_only, file='datatable_clean_survey_responses_v2.dta')

d_respondents <- fread('datatable_clean_survey_responses_v2.dta')

setnames(d_respondents,
         old = c('Duration (in seconds)'),
         new = c('Survey_Duration'))
kable(t(head(d_respondents[, names(d_respondents)[!names(d_respondents) %in% c(
    "Q70_First Click","Q70_Last Click","Q70_Page Submit","Q70_Click Count",
    "Q90_First Click","Q90_Last Click","Q90_Page Submit","Q90_Click Count",
    "Q61_First Click","Q61_Last Click","Q61_Page Submit","Q61_Click Count",
    "Q62_First Click","Q62_Last Click","Q62_Page Submit","Q62_Click Count",
    "Q63_First Click","Q63_Last Click","Q63_Page Submit","Q63_Click Count",
    "Q64_First Click","Q64_Last Click","Q64_Page Submit","Q64_Click Count",
    "Q65_First Click","Q65_Last Click","Q65_Page Submit","Q65_Click Count",
    "Q66_First Click","Q66_Last Click","Q66_Page Submit","Q66_Click Count",
    "Q67_First Click","Q67_Last Click","Q67_Page Submit","Q67_Click Count",
    "Q68_First Click","Q68_Last Click","Q68_Page Submit","Q68_Click Count",
    "housenumber","street","zip")],with=FALSE],3)))
```

```
## Warning in kable_pipe(x = structure(c("StartDate", "EndDate", "Status", : The
## table should have a header (column names)
```

StartDate	2020-11-09 20:46:55	2020-11-09 20:47:33	2020-11-09 20:47:23
EndDate	2020-11-09 20:50:39	2020-11-09 20:51:24	2020-11-09 20:51:35
Status	IP Address	IP Address	IP Address
IPAddress	174.88.123.135	172.93.166.91	68.36.215.223
Progress	100	100	100
Survey_Duration	223	231	251

Finished	TRUE	TRUE	TRUE
RecordedDate	2020-11-09 20:50:39	2020-11-09 20:51:25	2020-11-09 20:51:35
ResponseId	R_VLuUQ4C82PP9HEd	R_29cCZD1XK1dpmdY	R_3lVN8EncJofnqnV
RecipientLastName	NA	NA	NA
RecipientFirstName	NA	NA	NA
RecipientEmail	NA	NA	NA
ExternalReference	NA	NA	NA
LocationLatitude	43.68	33.75	42.66
LocationLongitude	-79.29	-84.39	-83.12
DistributionChannel	anonymous	anonymous	anonymous
UserLanguage	EN	EN	EN
Amazon_Turk_ID	A4D99Y82KOLC8	A1AC47WJLNW4G7	A77K8W55MJEKX
Gender	Male	Male	Female
Q82_3_TEXT	NA	NA	NA
Age_Range	35-44	25-34	45-54
Education_Level	Trade school	Master's degree and above	Bachelor's degree
Q1	Pneumonia	Pneumonia	Pneumonia
Q2	Normal	Normal	Pneumonia
Q3	Normal	Normal	Pneumonia
Q4	Pneumonia	Pneumonia	Pneumonia
Q5	Normal	Normal	Pneumonia
Q6	Pneumonia	Normal	Pneumonia
Q7	Pneumonia	Normal	Normal
Q8	Normal	Normal	Normal
Q9	Pneumonia	Normal	Pneumonia
Q10	Pneumonia	Pneumonia	Pneumonia
Control_Q1			
Q11	Normal	Normal	Pneumonia
Q12	Normal	Normal	Normal
Q13	Pnuemonia	Pnuemonia	Pnuemonia
Q14	Pneumonia	Normal	Pneumonia
Q15	Pneumonia	Normal	Pneumonia
Q16	Normal	Pneumonia	Pneumonia
Q17	Normal	Normal	Pneumonia
Q18	Pneumonia	Pneumonia	Pneumonia
Q19	Pneumonia	Normal	Pneumonia
Q20	Normal	Pneumonia	Pneumonia
Control_Q2			
Q21	Pneumonia	Normal	Pneumonia
Q22	Pneumonia	Pneumonia	Pneumonia
Q23	Normal	Pneumonia	Normal
Q24	Pneumonia	Normal	Pneumonia
Q25	Normal	Normal	Pneumonia
Q26	Pneumonia	Normal	Pneumonia
Q27	Pneumonia	Pneumonia	Pneumonia
Q28	Normal	Normal	Pneumonia
Q29	Normal	Pneumonia	Pneumonia
Q30	Pneumonia	Normal	Pneumonia
Q36			
Self_Reflect_Q1			
Q41			
Self_Reflect_Q2			
Q38			

Q43			
Q45	NA	NA	NA
Q47	NA	NA	NA
Q46	NA	NA	NA
Q48	NA	NA	NA
Total_Score	16	12	15
Random ID	14409	58508	96075
Assignment	FL_41	FL_16	FL_41
Q1_Score	0	0	0
Q2_Score	1	1	0
Q3_Score	0	0	1
Q4_Score	1	1	1
Q5_Score	1	1	0
Q6_Score	1	0	1
Q7_Score	1	0	0
Q8_Score	1	1	1
Q9_Score	1	0	1
Q10_Score	0	0	0
Q11_Score	0	0	1
Q12_Score	1	1	1
Q13_Score	0	0	0
Q14_Score	1	0	1
Q15_Score	0	1	0
Q16_Score	1	0	0
Q17_Score	0	0	1
Q18_Score	0	0	0
Q19_Score	1	0	1
Q20_Score	1	0	0
Q21_Score	0	1	0
Q22_Score	0	0	0
Q23_Score	0	1	0
Q24_Score	0	1	0
Q25_Score	0	0	1
Q26_Score	1	0	1
Q27_Score	1	1	1
Q28_Score	0	0	1
Q29_Score	1	0	0
Q30_Score	0	1	0
Assignment_Group	Negative Images	Positive Images	Negative Images
TaskPhase1_Score	0.7	0.4	0.5
TaskPhase2_Score	0.5	0.2	0.5
TaskPhase3_Score	0.3	0.5	0.4
city	Toronto	Atlanta	Rochester Hills
county	Canada	United States	United States
state	Ontario	Georgia	Michigan
country	Canada	United States	United States

```
nrow(d_respondents)
```

```
## [1] 350
```

```
#remove duplicate Amazon Turk IDs
nrow(d_respondents)  #350 rows
```

```
## [1] 350
```

```
d_respondents <- d_respondents[ !duplicated(d_respondents$Amazon_Turk_ID) , ]  #350 rows
```

EDA

Helper Functions

```
create_heatmap <- function(var1, var2) {
  ### Create a heatmap for a table of frequencies between two variables ###
  df <- data.frame(table(var1,var2))

  ggplot(df,aes(x=var1,y=var2)) +
    geom_tile(aes(fill=Freq,color=Freq),show.legend=FALSE,alpha=.8) +
    geom_text(aes(label=Freq)) +
    scale_fill_continuous(high = "darkslategray4", low = "powderblue")
}

g_legend<-function(a.gplot){
  #extract legend from a ggplot object
  #https://stackoverflow.com/questions/13649473/add-a-common-legend-for-combined-ggplots
  #https://github.com/hadley/ggplot2/wiki/Share-a-legend-between-two-ggplot2-graphs
  tmp <- ggplot_gtable(ggplot_build(a.gplot))
  leg <- which(sapply(tmp$grobs, function(x) x$name) == "guide-box")
  legend <- tmp$grobs[[leg]]
  return(legend)}
```

```
#some EDA

#d_respondents[ , table(state, country)]


table(d_respondents$state, d_respondents$country) %>%
        as.data.frame() %>%
        arrange(desc(Freq)) %>%
        filter(Freq>0)
```

```
##                         Var1           Var2 Freq
## 1                  Tamil Nadu          India  107
## 2                  California  United States   72
## 3                    New York  United States   22
## 4                      Kansas  United States   21
## 5                       Texas  United States   15
## 6                     Florida  United States    9
## 7               Massachusetts  United States    7
## 8                    Missouri  United States    6
## 9                  Connecticut  United States    5
## 10                     Georgia  United States    5
## 11                     Indiana  United States    5
## 12                    Michigan  United States    5
## 13                  New Jersey  United States    5
## 14                    Illinois  United States    4
## 15                    Virginia  United States    4
## 16                      Kerala          India    3
```

```
## 17                Maharashtra          India    3
## 18                   Colorado  United States    3
## 19                   Kentucky  United States    3
## 20                   Maryland  United States    3
## 21             North Carolina  United States    3
## 22                     Oregon  United States    3
## 23                    Ontario         Canada    2
## 24                    Alabama  United States    2
## 25                      Idaho  United States    2
## 26                  Minnesota  United States    2
## 27                 Mississippi  United States    2
## 28                     Nevada  United States    2
## 29                       Ohio  United States    2
## 30                 Pennsylvania  United States    2
## 31                   Washington  United States    2
## 32            Qarku i Tiranës        Albania    1
## 33            Khulna Division     Bangladesh    1
## 34                      Bahia         Brazil    1
## 35                    Atacama          Chile    1
## 36 Provence-Alpes-Côte d'Azur         France    1
## 37    Departamento de Olancho       Honduras    1
## 38              Andhra Pradesh          India    1
## 39                   Karnataka          India    1
## 40                    Sardegna          Italy    1
## 41                     England United Kingdom    1
## 42                     Arizona  United States    1
## 43                        Iowa  United States    1
## 44                   Louisiana  United States    1
## 45                       Maine  United States    1
## 46                    Nebraska  United States    1
## 47                    Oklahoma  United States    1
## 48             South Carolina  United States    1
## 49               South Dakota  United States    1
## 50                  Tennessee  United States    1
```

```
table(d_respondents$country) %>%
        as.data.frame() %>%
        arrange(desc(Freq))
```

```
##              Var1 Freq
## 1   United States  225
## 2           India  115
## 3          Canada    2
## 4         Albania    1
## 5      Bangladesh    1
## 6          Brazil    1
## 7           Chile    1
## 8          France    1
## 9        Honduras    1
## 10          Italy    1
## 11 United Kingdom    1
```

```
table(d_respondents$Total_Score) %>%
  as.data.frame() %>%
  arrange(desc(Var1))
```

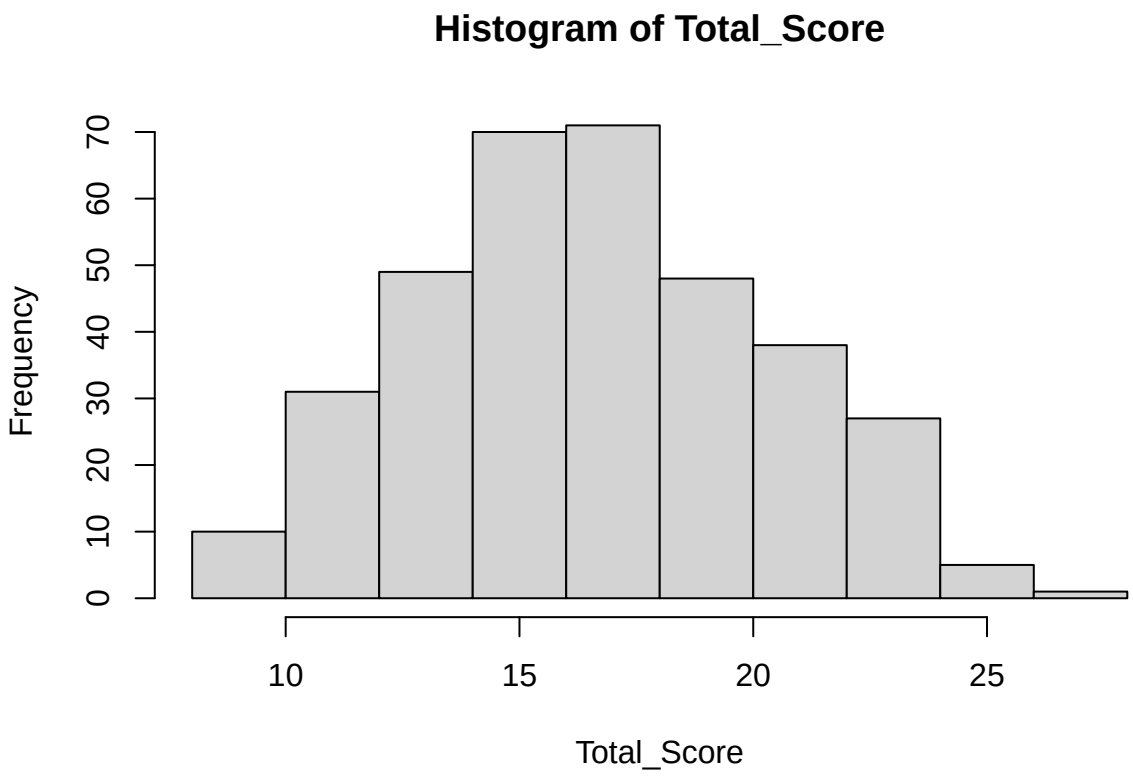
```
##    Var1 Freq
## 1    27    1
## 2    26    1
## 3    25    4
## 4    24   12
## 5    23   15
## 6    22   16
## 7    21   22
## 8    20   27
## 9    19   21
## 10   18   31
## 11   17   40
## 12   16   40
## 13   15   30
## 14   14   30
## 15   13   19
## 16   12   18
## 17   11   13
## 18   10    6
## 19    9    3
## 20    8    1
```

```
d_respondents %>%
  group_by(Assignment_Group) %>%
  summarise(mean = mean(Total_Score),
            count = n(),
            time_duration = mean(Survey_Duration))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
## # A tibble: 5 x 4
##   Assignment_Group  mean count time_duration
##   <chr>            <dbl> <int>         <dbl>
## 1 Control           16.7    69          638.
## 2 Medical Feedback  17.8    70          656.
## 3 Negative Images   16.5    72          783
## 4 Positive Images   17.3    70          505.
## 5 Self-Reflect      17.2    69          612.
```

```
#d_respondents[ , .(count = .N, avg = mean(Total_Score)), by=Assignment_Group] #same thing

d_respondents[ , hist(Total_Score)]
```




```
## $breaks
##  [1]  8 10 12 14 16 18 20 22 24 26 28
##
## $counts
##  [1] 10 31 49 70 71 48 38 27  5  1
##
## $density
##  [1] 0.014286 0.044286 0.070000 0.100000 0.101429 0.068571 0.054286 0.038571
##  [9] 0.007143 0.001429
##
## $mids
##  [1]  9 11 13 15 17 19 21 23 25 27
##
## $xname
## [1] "Total_Score"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"
```

```
tapply(d_respondents$Total_Score, d_respondents$Assignment_Group, summary)
```

```
## $Control
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     8.0    14.0    16.0    16.7    19.0    24.0
##
## $`Medical Feedback`
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
```

```
##    10.0    16.0    17.5    17.8    20.0    24.0
##
## $`Negative Images`
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     9.0    13.0    16.0    16.5    19.2    25.0
##
## $`Positive Images`
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     9.0    15.0    17.0    17.3    20.0    27.0
##
## $`Self-Reflect`
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     9.0    14.0    17.0    17.2    20.0    25.0
```

```
tapply(d_respondents$Total_Score, d_respondents$Assignment_Group, sd)
```

```
##          Control Medical Feedback  Negative Images  Positive Images
##            3.659            3.279            3.996            3.817
##     Self-Reflect
##            3.882
```

```
d_respondents[ , sd(Total_Score)]
```

```
## [1] 3.743
```

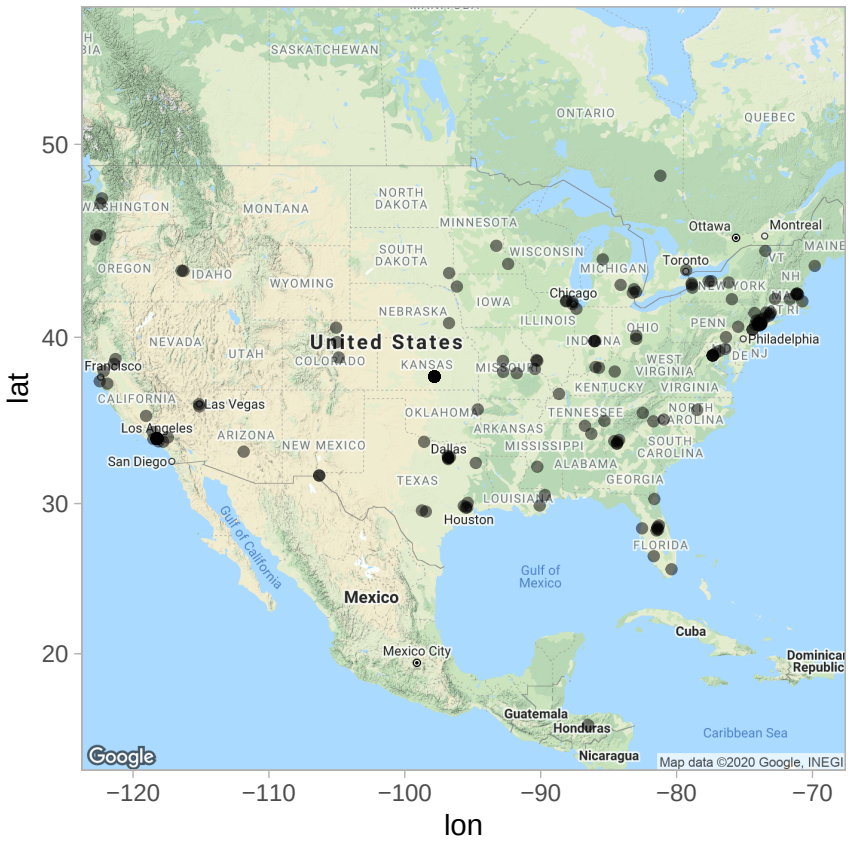
```
library(ggmap)
?register_google
register_google(key = "AIzaSyCTk2a5vIEqcvgz9KmQmItoNF7J8_hiMMk")
# ggmap_show_api_key()

us_map<-get_map(location='united states', zoom=4, maptype = "terrain",
             source='google',color='color')
```

```
## Source : https://maps.googleapis.com/maps/api/staticmap?center=united%20states&zoom=4&size=640x640&s
```

```
## Source : https://maps.googleapis.com/maps/api/geocode/json?address=united+states&key=xxx
```

```
ggmap(us_map) + geom_point(x=d_respondents$LocationLongitude, y = d_respondents$LocationLatitude, show_
```

```
## Warning: `show_guide` has been deprecated. Please use `show.legend` instead.
```



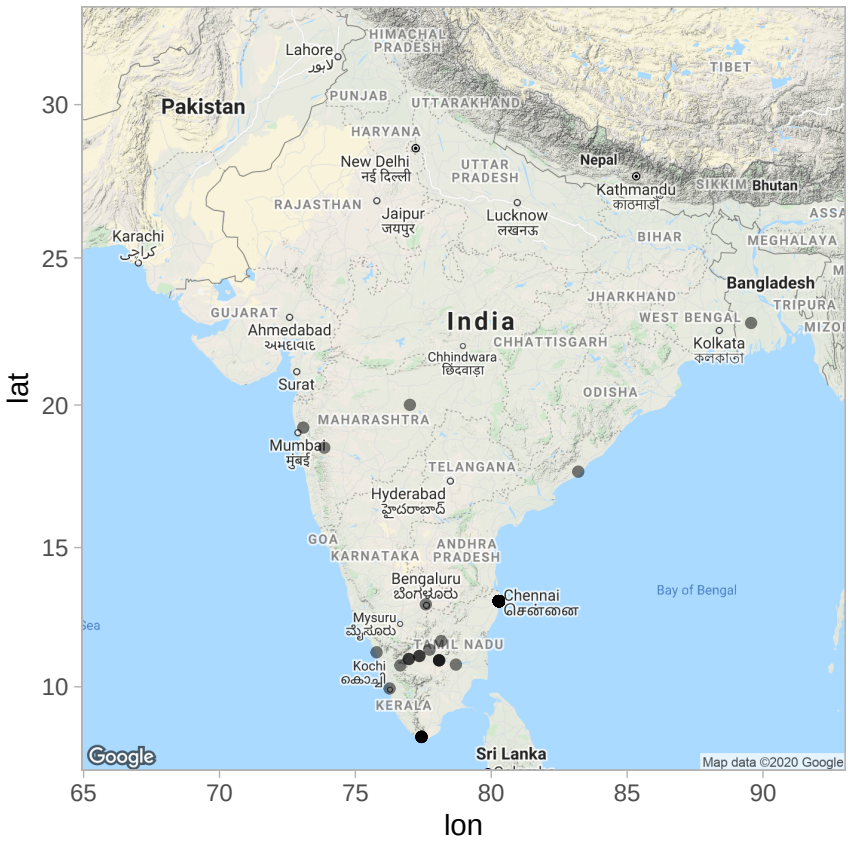

```
india_map<-get_map(location='india', zoom=5, maptype = "terrain",
             source='google',color='color')
```

```
## Source : https://maps.googleapis.com/maps/api/staticmap?center=india&zoom=5&size=640x640&scale=2&map
```

```
## Source : https://maps.googleapis.com/maps/api/geocode/json?address=india&key=xxx
```

```
ggmap(india_map) + geom_point(x=d_respondents$LocationLongitude, y = d_respondents$LocationLatitude, sh
```

```
## Warning: `show_guide` has been deprecated. Please use `show.legend` instead.
```



Randomization Check

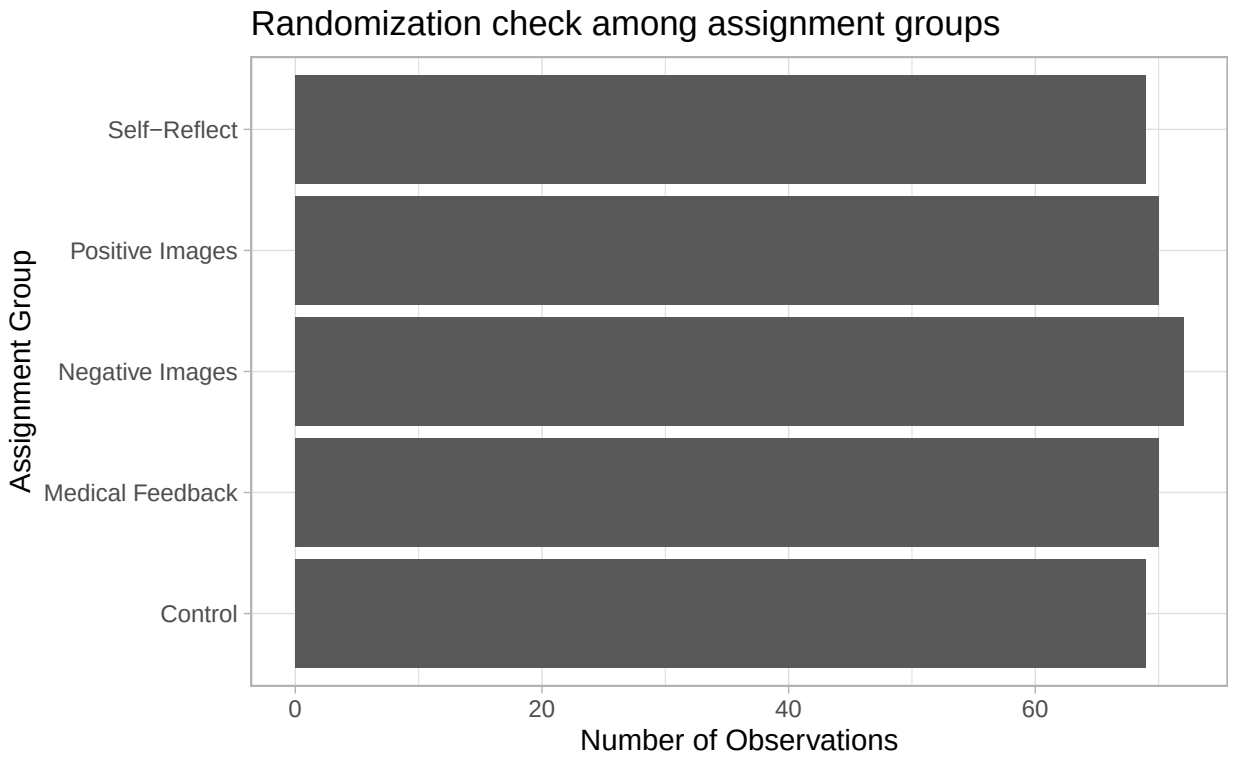
```
#http://www.sthda.com/english/wiki/chi-square-goodness-of-fit-test-in-r

respondent_counts <- d_respondents[ , .(.N), keyby=Assignment_Group]

respondent_counts_chisq_test <- chisq.test(respondent_counts[,2], p=c(1/5, 1/5, 1/5, 1/5, 1/5))
pander(respondent_counts_chisq_test,style ='rmarkdown')
```

Table 2: Chi-squared test for given probabilities: `respondent_counts[, 2]`

Test statistic	df	P value
0.08571	4	0.9991

```
respondent_counts %>%
  ggplot(aes(x = Assignment_Group,y=N)) +
  geom_bar(stat = 'identity') +
  coord_flip() +
  xlab('Assignment Group') +
  ylab('Number of Observations') +
  labs(title='Randomization check among assignment groups',
       caption = paste0('Assuming equal distribution among assignment groups, a chi-squared goodness of
                        round(respondent_counts_chisq_test$parameter,4),' degrees of \nfreedom ', 'yiel
                        round(respondent_counts_chisq_test$p.value,4),
```

```
                        ', suggesting that the observed proportions are not significantly different fro
  theme(plot.caption = element_text(hjust = 0))
```



Assuming equal distribution among assignment groups, a chi−squared goodness of fit test wit
freedom yields p=0.9991, suggesting that the observed proportions are not significantly differe
expected proportions at a significance level of 0.05.

```
#p-value = 0.9991, which is greater than significance level of 0.05.
#We can conclude that the observed proportions are not significantly different from the expected propor
```

Covariate Balance Check

```
#let's consider adding age bins and education bins

d_respondents[ Age_Range == "18-24", age_bin := 1]
d_respondents[ Age_Range == "25-34", age_bin := 2]
d_respondents[ Age_Range == "35-44", age_bin := 3]
d_respondents[ Age_Range == "45-54", age_bin := 4]
d_respondents[ Age_Range == "55-64", age_bin := 5]
d_respondents[ Age_Range == "Above 65", age_bin := 6]

d_respondents[ Education_Level == "Associate's degree", edu_bin := 1]
d_respondents[ Education_Level == "Bachelor's degree", edu_bin := 2]
d_respondents[ Education_Level == "High school", edu_bin := 3]
d_respondents[ Education_Level == "Master's degree and above", edu_bin := 4]
d_respondents[ Education_Level == "Some high school", edu_bin := 5]
d_respondents[ Education_Level == "Trade school", edu_bin := 6]

d_respondents[ Assignment_Group == "Control", assign_bin := 1]
d_respondents[ Assignment_Group == "Medical Feedback", assign_bin := 2]
```

```
d_respondents[ Assignment_Group == "Negative Images", assign_bin := 3]
d_respondents[ Assignment_Group == "Positive Images", assign_bin := 4]
d_respondents[ Assignment_Group == "Self-Reflect", assign_bin := 5]

d_respondents[ , US_Dummy := ifelse(country == "United States", 1, 0)]

d_respondents[ , Male_Dummy := ifelse(Gender == "Male", 1, 0)]

#add treatment dummy

d_respondents[ , Treatment_Dummy := ifelse(Assignment_Group != "Control", 1, 0)]

#head(d_respondents)
```

```
d_respondents %>%
  group_by(Assignment_Group) %>%
  summarise(num_respondents = n(),
            pre_treatment_avg = mean(TaskPhase1_Score),
            taskphase2_avg = mean(TaskPhase2_Score),
            taskphase3_avg = mean(TaskPhase3_Score))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
## # A tibble: 5 x 5
##   Assignment_Group num_respondents pre_treatment_a~ taskphase2_avg
##   <chr>                      <int>            <dbl>          <dbl>
## 1 Control                       69            0.607          0.461
## 2 Medical Feedback              70            0.634          0.523
## 3 Negative Images               72            0.578          0.494
## 4 Positive Images               70            0.614          0.514
## 5 Self-Reflect                  69            0.599          0.526
## # ... with 1 more variable: taskphase3_avg <dbl>
```

```
d_respondents %>%
  group_by(Assignment_Group) %>%
  summarise(num_respondents = n(),
            avg_age_bin = mean(age_bin),
            avg_edu_bin = mean(edu_bin),
            male = mean(Male_Dummy),
            US = mean(US_Dummy))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
## # A tibble: 5 x 6
##   Assignment_Group num_respondents avg_age_bin avg_edu_bin  male    US
##   <chr>                      <int>       <dbl>       <dbl> <dbl> <dbl>
## 1 Control                       69        2.68        2.61 0.609 0.652
## 2 Medical Feedback              70        2.63        2.47 0.586 0.529
## 3 Negative Images               72        2.62        2.58 0.583 0.625
## 4 Positive Images               70        2.86        2.6  0.586 0.714
## 5 Self-Reflect                  69        2.83        2.42 0.594 0.696
```

```
d_respondents %>%
  group_by(Assignment_Group) %>%
  summarise(num_respondents = n(),
            )
```

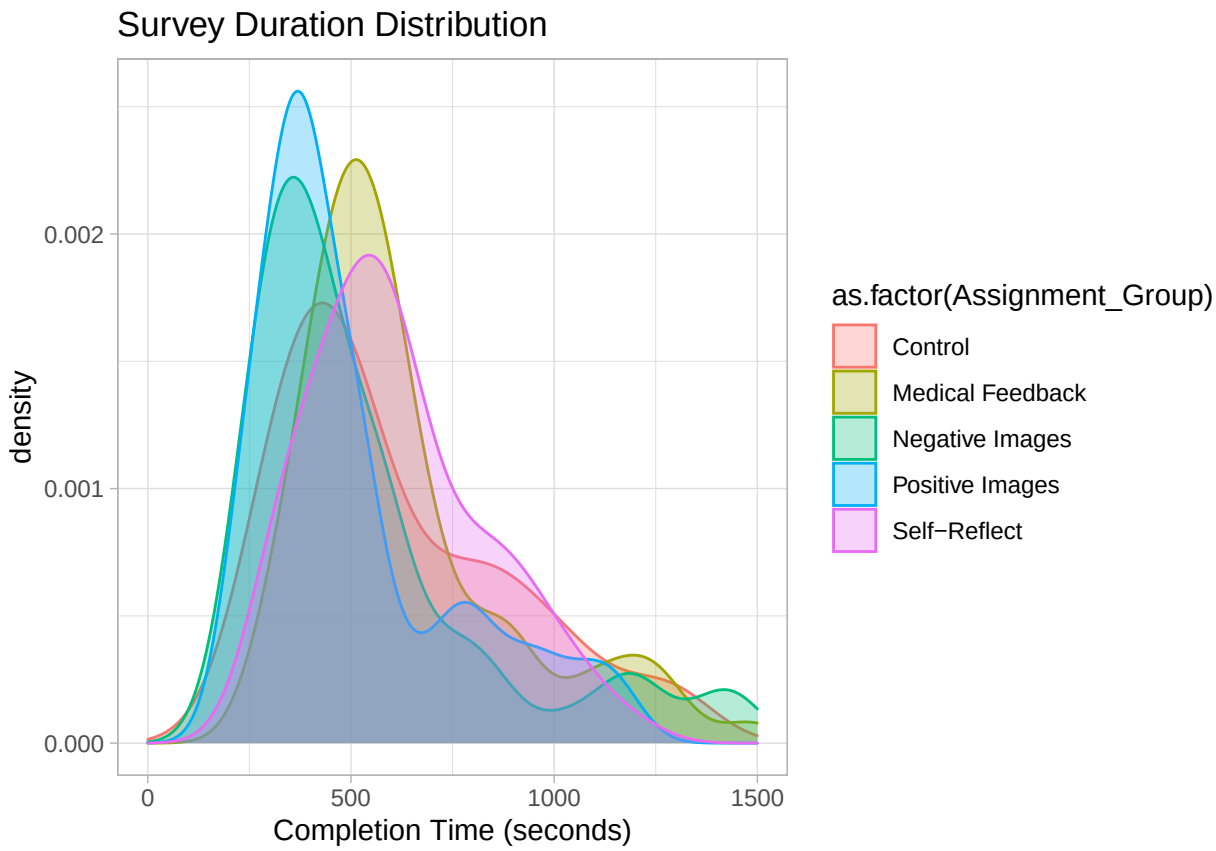
```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
## # A tibble: 5 x 2
##   Assignment_Group num_respondents
##   <chr>                      <int>
## 1 Control                       69
## 2 Medical Feedback              70
## 3 Negative Images               72
## 4 Positive Images               70
## 5 Self-Reflect                  69
```

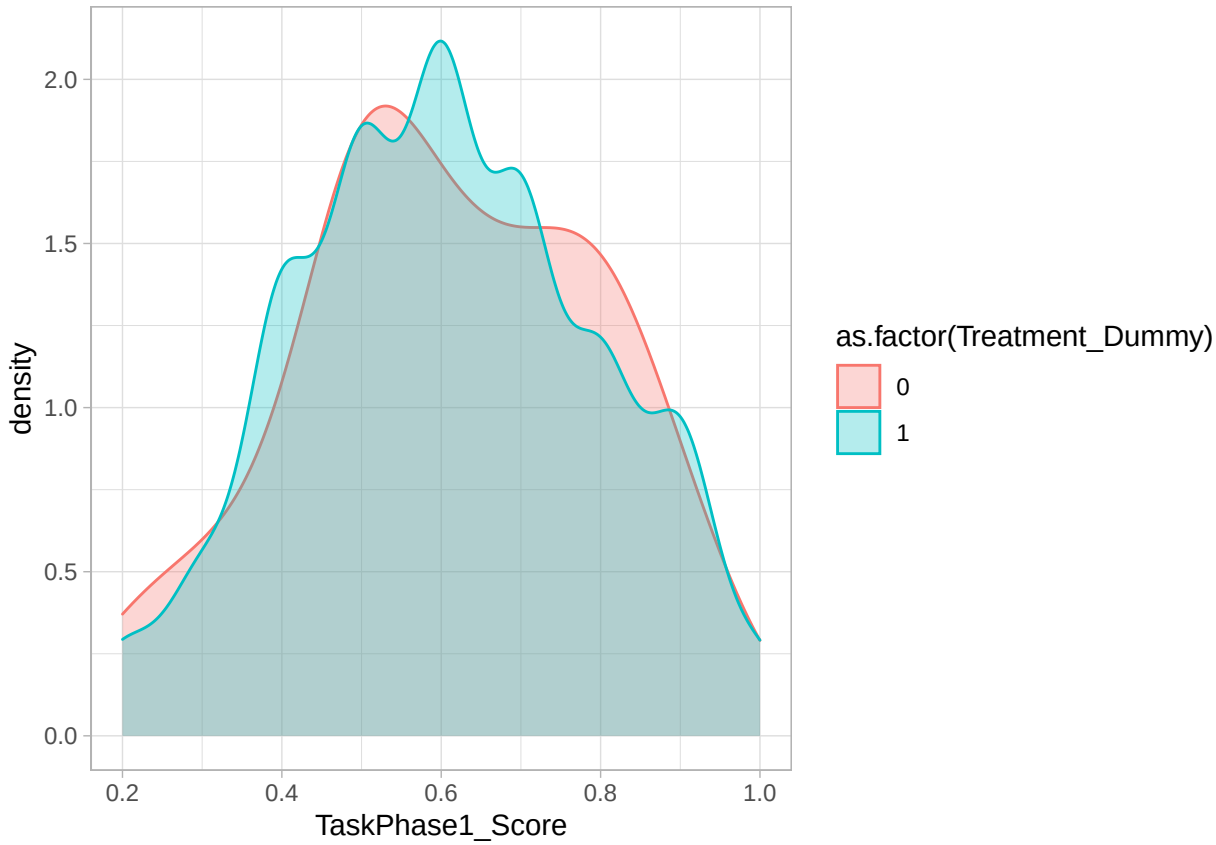
Visuals

```
#Density distribution of Survey Duration
ggplot(d_respondents, aes(x=Survey_Duration, colour=as.factor(Assignment_Group), fill = as.factor(Assig
  geom_density(alpha = 0.3) +
  xlim(0, 1500) +
  xlab("Completion Time (seconds)") +
  ggtitle("Survey Duration Distribution")
```

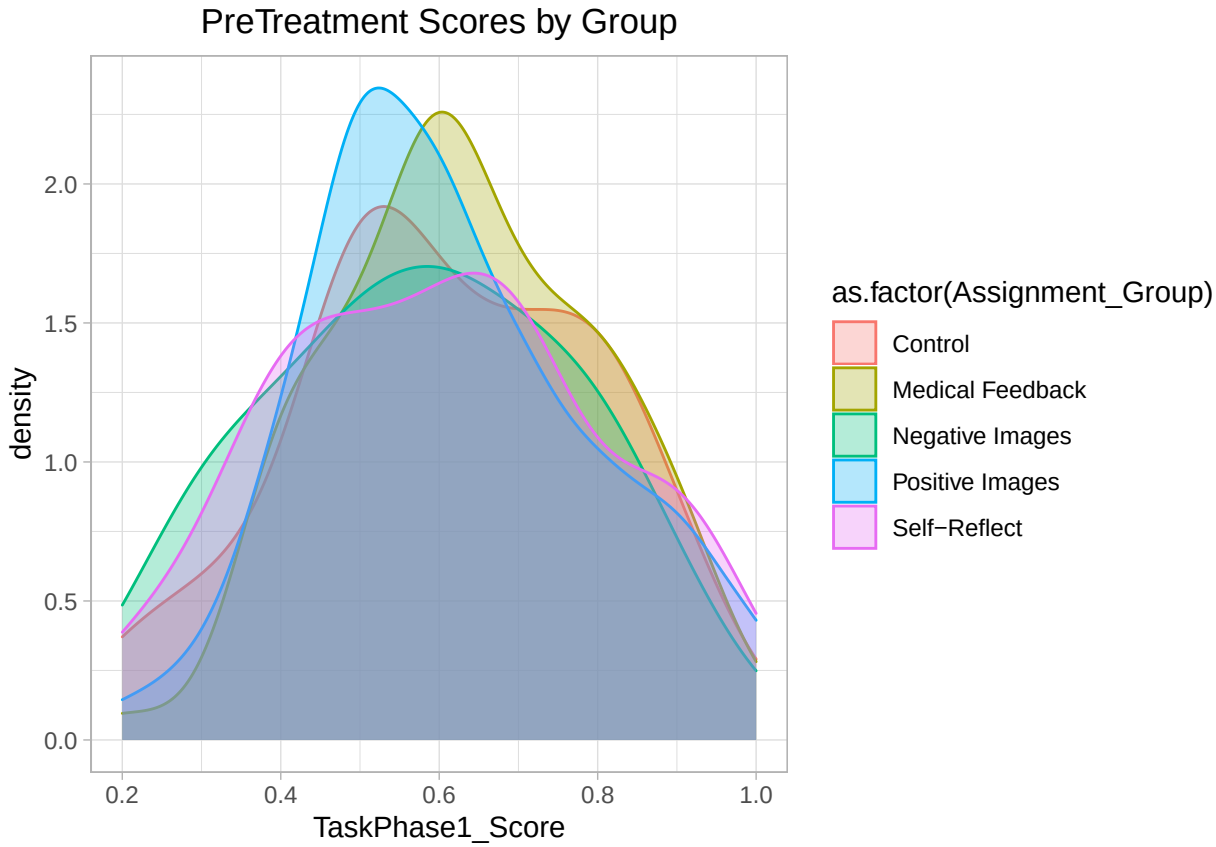
```
## Warning: Removed 6 rows containing non-finite values (stat_density).
```



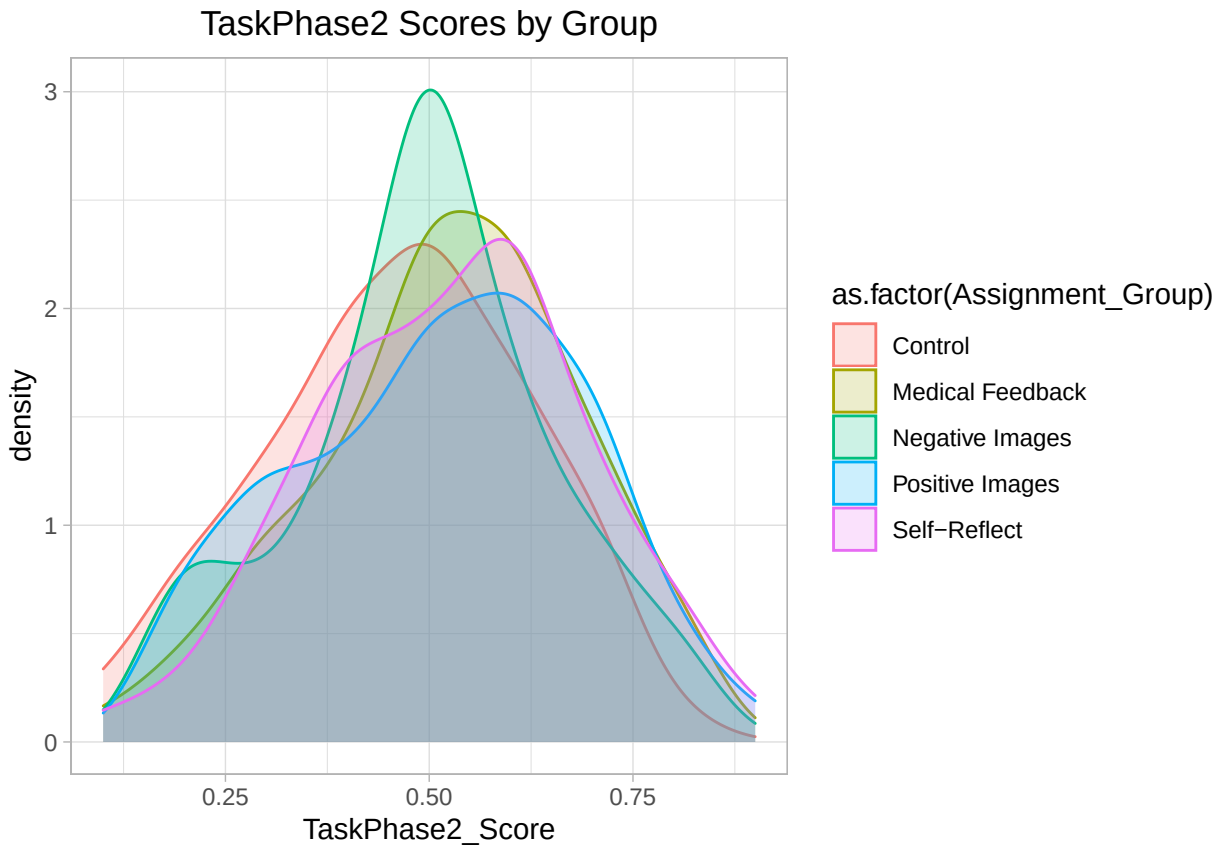

```
#Comparing pretreatment values
ggplot(d_respondents, aes(x=TaskPhase1_Score, fill = as.factor(Treatment_Dummy), colour=as.factor(Treatm
```



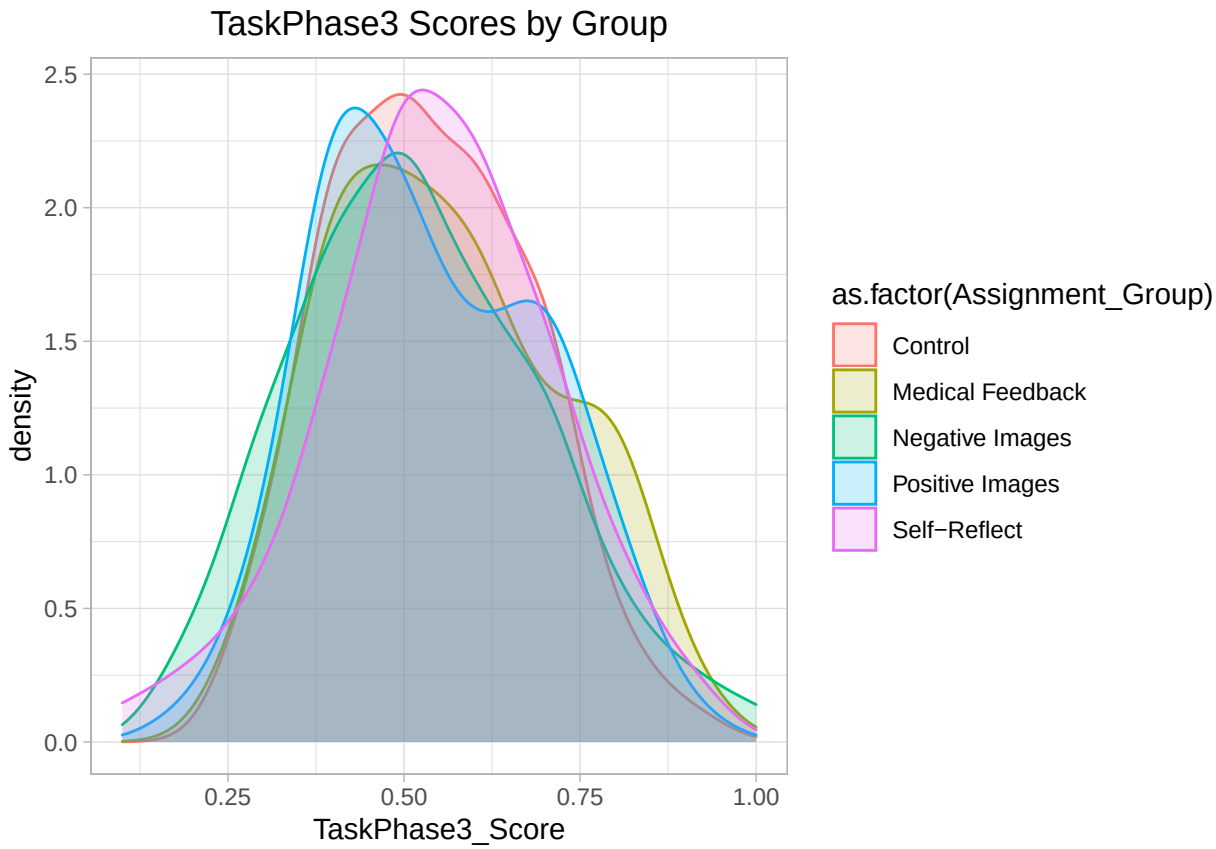

```
ggplot(d_respondents, aes(x=TaskPhase1_Score, fill = as.factor(Assignment_Group), colour=as.factor(Assi
```




```
#Comparing taskphase2 values
ggplot(d_respondents, aes(x=TaskPhase2_Score, fill = as.factor(Assignment_Group), colour=as.factor(Assi
```




```
#Comparing taskphase3 values
ggplot(d_respondents, aes(x=TaskPhase3_Score, fill = as.factor(Assignment_Group), colour=as.factor(Assi
```




```
task2a_bp <- ggplot(d_respondents, aes(x = Treatment_Dummy, y=TaskPhase1_Score, colour=as.factor(Treatme
  geom_boxplot() +
  stat_summary(fun.y = mean, geom = "errorbar", aes(ymax = ..y.., ymin = ..y..), width = .75, linetype =
  xlab('') +
  ylab('Task Score (%)') +
  ggtitle("Pre Treatment Scores") +
  scale_y_continuous(labels = scales::percent,limits = c(0,1)) +
  theme(axis.text.x = element_blank(),
        axis.ticks = element_blank(),
        plot.title = element_text(hjust = 0.5,size=10),
        legend.position = "bottom",
        legend.title = element_blank())
```

```
## Warning: `fun.y` is deprecated. Use `fun` instead.
```

```
task2b_bp <- ggplot(d_respondents, aes(x = Treatment_Dummy, y=TaskPhase2_Score, colour=as.factor(Treatme
  geom_boxplot() +
  stat_summary(fun.y = mean, geom = "errorbar", aes(ymax = ..y.., ymin = ..y..), width = .75, linetype =
  xlab('') +
  ylab('') +
  ggtitle("Task Phase 2 Scores") +
  scale_y_continuous(labels = scales::percent,limits = c(0,1)) +
  theme(axis.text.x = element_blank(),
        axis.ticks = element_blank(),
        plot.title = element_text(hjust = 0.5,size=10),
        legend.position = "none")
```

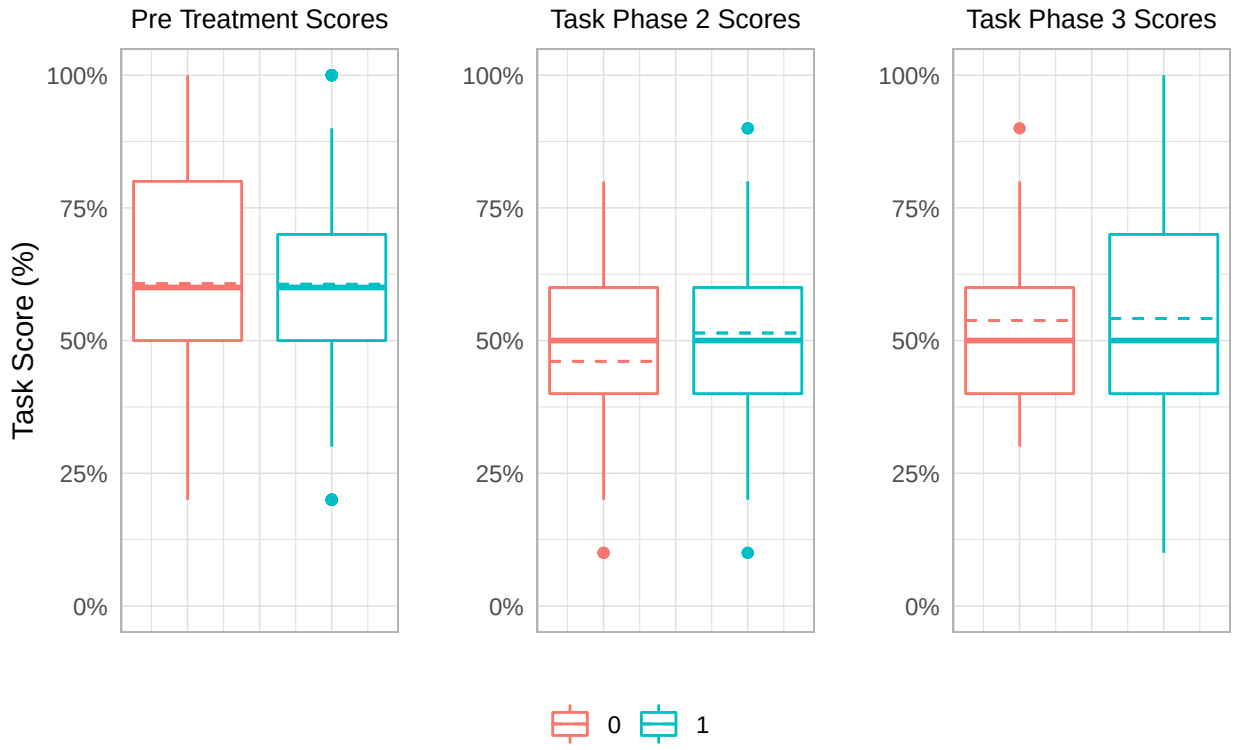
```
## Warning: `fun.y` is deprecated. Use `fun` instead.
```

```
task2c_bp <- ggplot(d_respondents, aes(x = Treatment_Dummy, y=TaskPhase3_Score, colour=as.factor(Treatm
  geom_boxplot() +
  stat_summary(fun.y = mean, geom = "errorbar", aes(ymax = ..y.., ymin = ..y..), width = .75, linetype =
  xlab('') +
  ylab('') +
  ggtitle("Task Phase 3 Scores") +
  scale_y_continuous(labels = scales::percent,limits = c(0,1)) +
  theme(axis.text.x = element_blank(),
        axis.ticks = element_blank(),
        plot.title = element_text(hjust = 0.5,size=10),
        legend.position = "none")
```

```
## Warning: `fun.y` is deprecated. Use `fun` instead.
```

```
mylegend_2<-g_legend(task2a_bp)

grid.arrange(arrangeGrob(task2a_bp + theme(legend.position="none"),task2b_bp,task2c_bp,ncol=3),
             mylegend_2,
             nrow=2,
             heights=c(10,1),
             top = textGrob("Compare task scores in different phases\n",just='right',gp=gpar(fontsize=14
```

ompare task scores in different phases




```
pander(t.test(d_respondents[Treatment_Dummy == 0, TaskPhase1_Score],
       d_respondents[Treatment_Dummy == 1, TaskPhase1_Score]))
```

Table 3: Welch Two Sample t-test: d_respondents[Treatment_Dummy == 0, TaskPhase1_Score] and d_respondents[Treatment_Dummy == 1, TaskPhase1_Score]

Test statistic	df	P value	Alternative hypothesis	mean of x	mean of y
0.04674	102.6	0.9628	two.sided	0.6072	0.606

```
# boxplots for multiple treatment groups
task1a_bp <- ggplot(d_respondents, aes(x = Assignment_Group, y=TaskPhase1_Score, colour=as.factor(Assig
  geom_boxplot() +
  stat_summary(fun.y = mean, geom = "errorbar", aes(ymax = ..y.., ymin = ..y..), width = .75, linetype =
  xlab('') +
  ylab('Task Score (%)') +
  ggtitle("Pre Treatment Scores") +
  scale_y_continuous(labels = scales::percent,limits = c(0,1)) +
  theme(axis.text.x = element_blank(),
        axis.ticks = element_blank(),
        plot.title = element_text(hjust = 0.5,size=10),
        legend.position = "bottom",
        legend.title = element_blank())
```

```
## Warning: `fun.y` is deprecated. Use `fun` instead.
```

```
task1b_bp <- ggplot(d_respondents, aes(x = Assignment_Group, y=TaskPhase2_Score, colour=as.factor(Assig
  geom_boxplot() +
  stat_summary(fun.y = mean, geom = "errorbar", aes(ymax = ..y.., ymin = ..y..), width = .75, linetype =
  xlab('') +
  ylab('') +
  ggtitle("Task Phase 2 Scores") +
  scale_y_continuous(labels = scales::percent,limits = c(0,1)) +
  theme(axis.text.x = element_blank(),
        axis.ticks = element_blank(),
        plot.title = element_text(hjust = 0.5,size=10),
        legend.position = "none")
```

```
## Warning: `fun.y` is deprecated. Use `fun` instead.
```

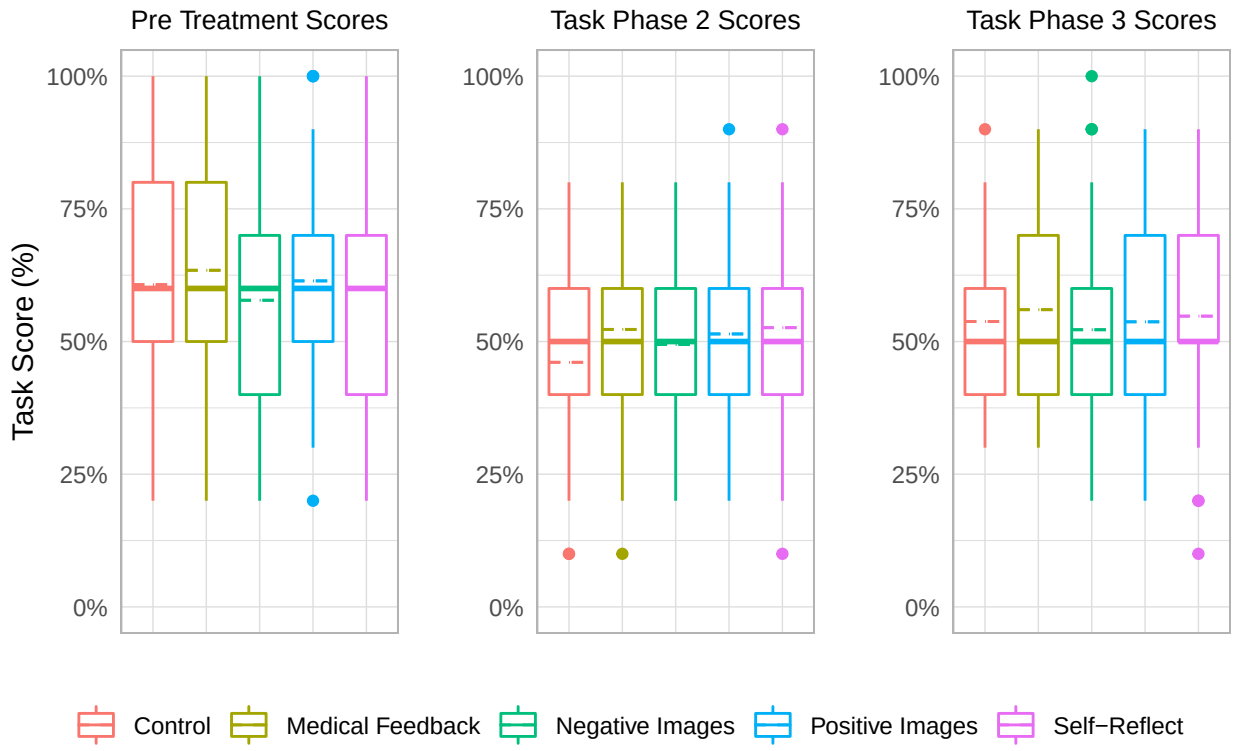
```
task1c_bp <- ggplot(d_respondents, aes(x = Assignment_Group, y=TaskPhase3_Score, colour=as.factor(Assig
  geom_boxplot() +
  stat_summary(fun.y = mean, geom = "errorbar", aes(ymax = ..y.., ymin = ..y..), width = .75, linetype =
  xlab('') +
  ylab('') +
  ggtitle("Task Phase 3 Scores") +
  scale_y_continuous(labels = scales::percent,limits = c(0,1)) +
  theme(axis.text.x = element_blank(),
        axis.ticks = element_blank(),
        plot.title = element_text(hjust = 0.5,size=10),
        legend.position = "none")
```

```
## Warning: `fun.y` is deprecated. Use `fun` instead.
```

```
mylegend_1<-g_legend(task1a_bp)

grid.arrange(arrangeGrob(task1a_bp + theme(legend.position="none"),task1b_bp,task1c_bp,ncol=3),
```

```
            mylegend_1,
            nrow=2,
            heights=c(10,1),
            top = textGrob("Compare task scores in different phases\n",just='right',gp=gpar(fontsize=14
```

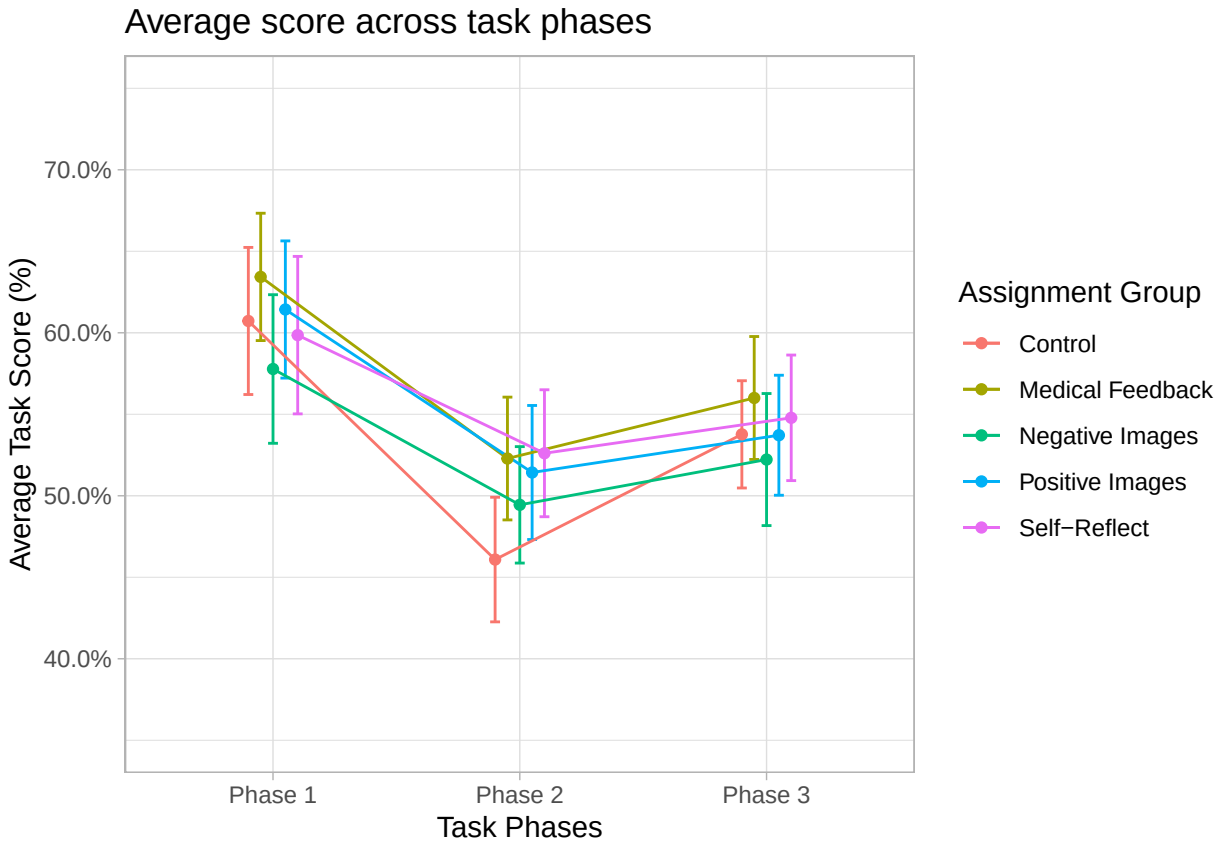
mpare task scores in different phases




```
# pander(t.test(d_respondents[Treatment_Dummy == 0, TaskPhase1_Score],
#        d_respondents[Treatment_Dummy == 1, TaskPhase1_Score]))
```

```
# Compare score across time for all groups
# https://sphweb.bumc.bu.edu/otlt/MPH-Modules/BS/BS704_Confidence_Intervals/BS704_Confidence_Intervals_
# TODO finish formatting
# TODO duplicate for treatment dummy as well
summary_task_score <- (melt(d_respondents,id.vars=c('Assignment_Group'),
                            measure.vars = c('TaskPhase1_Score','TaskPhase2_Score','TaskPhase3_Score'))
  ,.('avg_score'=mean(value),'sd_score'=sd(value),'obs'=.N),keyby=.(Assignment_Group,variable)])[
    ,se:=1.96*sd_score/sqrt(obs)]

summary_task_score %>%
  ggplot( aes(x=variable, y=avg_score, group=Assignment_Group, color=Assignment_Group)) +
  geom_errorbar(aes(ymin=avg_score-1.96*sd_score/sqrt(obs), ymax=avg_score+1.96*sd_score/sqrt(obs)),
                width=.2,
                position=position_dodge(0.25)) +
  geom_line(position=position_dodge(0.25)) +
  geom_point(position=position_dodge(0.25)) +
  scale_y_continuous(labels = scales::percent,limits = c(.35,.75)) +
  scale_x_discrete(breaks=c("TaskPhase1_Score", "TaskPhase2_Score","TaskPhase3_Score"),
                   labels=c("Phase 1", "Phase 2", "Phase 3")) +
```

```
  xlab('Task Phases') +
  ylab('Average Task Score (%)') +
  labs(title='Average score across task phases', color = "Assignment Group")
```




```
# TODO add this to the appendix
kable(summary_task_score)
```

Assignment_Group	variable	avg_score	sd_score	obs	se
Control	TaskPhase1_Score	0.6072	0.1912	69	0.0451
Control	TaskPhase2_Score	0.4609	0.1620	69	0.0382
Control	TaskPhase3_Score	0.5377	0.1394	69	0.0329
Medical Feedback	TaskPhase1_Score	0.6343	0.1667	70	0.0391
Medical Feedback	TaskPhase2_Score	0.5229	0.1608	70	0.0377
Medical Feedback	TaskPhase3_Score	0.5600	0.1610	70	0.0377
Negative Images	TaskPhase1_Score	0.5778	0.1973	72	0.0456
Negative Images	TaskPhase2_Score	0.4944	0.1546	72	0.0357
Negative Images	TaskPhase3_Score	0.5222	0.1754	72	0.0405
Positive Images	TaskPhase1_Score	0.6143	0.1796	70	0.0421
Positive Images	TaskPhase2_Score	0.5143	0.1755	70	0.0411
Positive Images	TaskPhase3_Score	0.5371	0.1571	70	0.0368
Self-Reflect	TaskPhase1_Score	0.5986	0.2047	69	0.0483
Self-Reflect	TaskPhase2_Score	0.5261	0.1651	69	0.0390
Self-Reflect	TaskPhase3_Score	0.5478	0.1632	69	0.0385

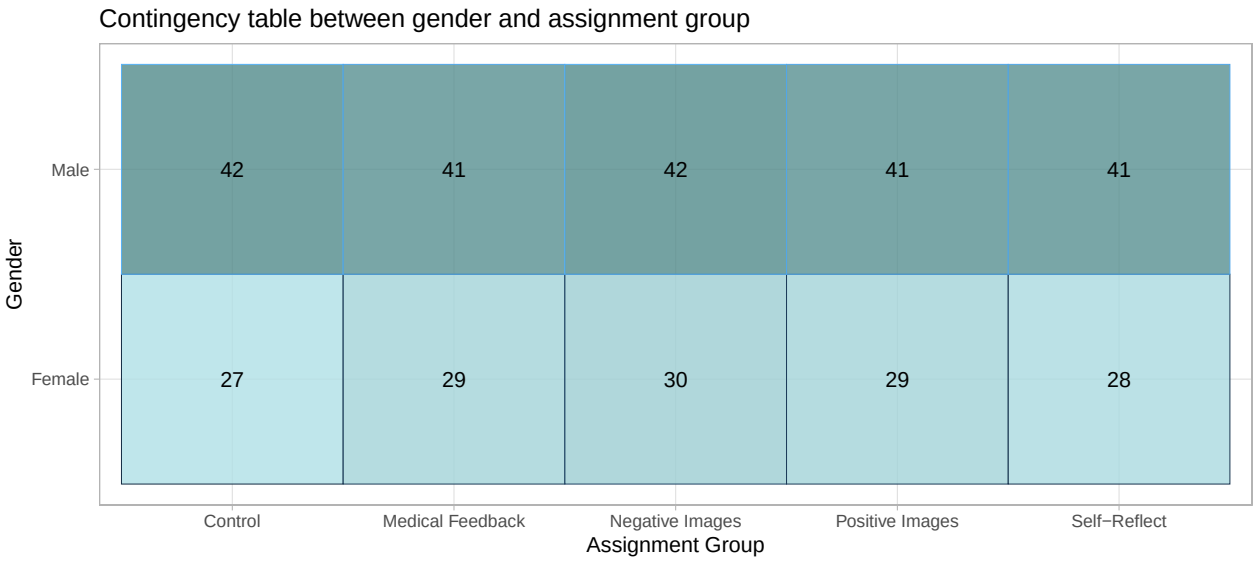
Gender

```r
# TODO format figures and captions
#check balance between gender

gender_chiqq <- chisq.test(d_respondents[ , table(Assignment_Group, Gender)])
pander(gender_chiqq,style='rmarkdown')
```

Table 5: Pearson's Chi-squared test: `d_respondents[, table(Assignment_Group, Gender)]`

Test statistic	df	P value
0.1258	4	0.9981

```r
create_heatmap(var1 = d_respondents$Assignment_Group,var2 = d_respondents$Gender) +
  xlab('Assignment Group') +
  ylab('Gender') +
  labs(title = 'Contingency table between gender and assignment group',
       caption = paste0('Assuming gender distributions are the same among assignment groups, a chi-squa
                        round(gender_chiqq$parameter,4),' \ndegrees of freedom ', 'yields p=',
                        round(gender_chiqq$p.value,4),
                        ', suggesting that there is no relationship between gender and assignment group
  theme(plot.caption = element_text(hjust = 0))
```



Assuming gender distributions are the same among assignment groups, a chi−squared test for independence with 4 degrees of freedom yields p=0.9981, suggesting that there is no relationship between gender and assignment groups at a significance level of 0.05.

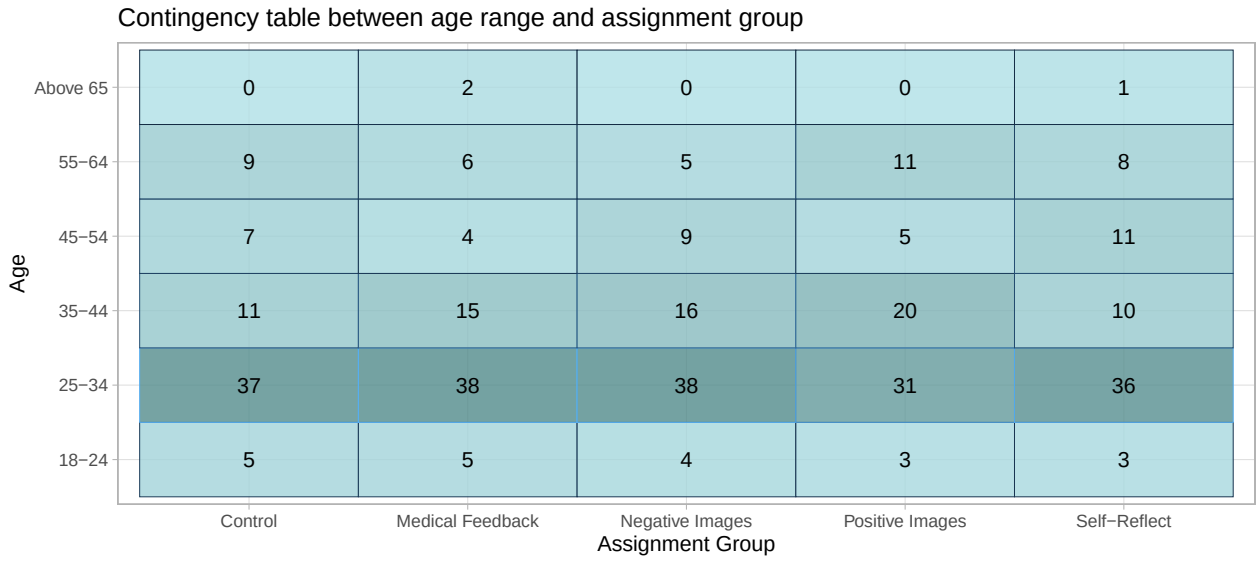
Age Range

```r
# TODO format figures and captions
#check balance between age-range

# expected frequency count for each cell of the contingency table should be at least 5. Since this is n
# https://stats.stackexchange.com/questions/81483/warning-in-r-chi-squared-approximation-may-be-incorre
age_chisq <- chisq.test(d_respondents[ , table(Assignment_Group, Age_Range)],simulate.p.value = TRUE)
pander(age_chisq,style='rmarkdown')
```

Table 6: Pearson's Chi-squared test with simulated p-value (based on 2000 replicates): `d_respondents[, table(Assignment_Group, Age_Range)]`

Test statistic	df	P value
19.22	NA	0.5022

```
create_heatmap(var1 = d_respondents$Assignment_Group,var2 = d_respondents$Age_Range) +
  xlab('Assignment Group') +
  ylab('Age') +
  labs(title = 'Contingency table between age range and assignment group',
       caption = paste0('Assuming age distributions are the same among assignment groups, a chi-squared
                        round(age_chisq$p.value,4),
                        ', suggesting that there is no relationship between age and assignment groups a
  theme(plot.caption = element_text(hjust = 0))
```



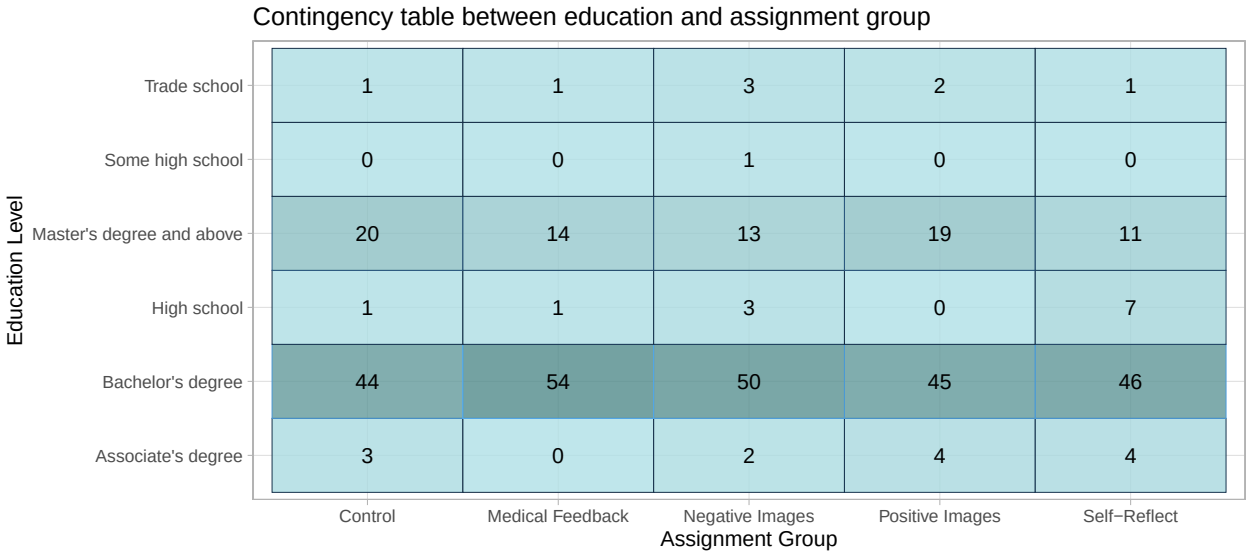
Education Level

```
# TODO format figures and captions
#check balance between education levels
edu_chisq <- chisq.test(d_respondents[ , table(Assignment_Group, Education_Level)],simulate.p.value = T
pander(edu_chisq,style='rmarkdown')
```

Table 7: Pearson's Chi-squared test with simulated p-value (based on 2000 replicates): `d_respondents[, table(Assignment_Group, Education_Level)]`

Test statistic	df	P value
28.7	NA	0.06397

```
create_heatmap(var1 = d_respondents$Assignment_Group,var2 = d_respondents$Education_Level) +
  xlab('Assignment Group') +
  ylab('Education Level') +
  labs(title = 'Contingency table between education and assignment group',
       caption = paste0('Assuming education distributions are the same among assignment groups, a chi-s
                        round(edu_chisq$p.value,4),
                        ', suggesting that there is no relationship \nbetween education and assignment
  theme(plot.caption = element_text(hjust = 0))
```



Country: US, non-US

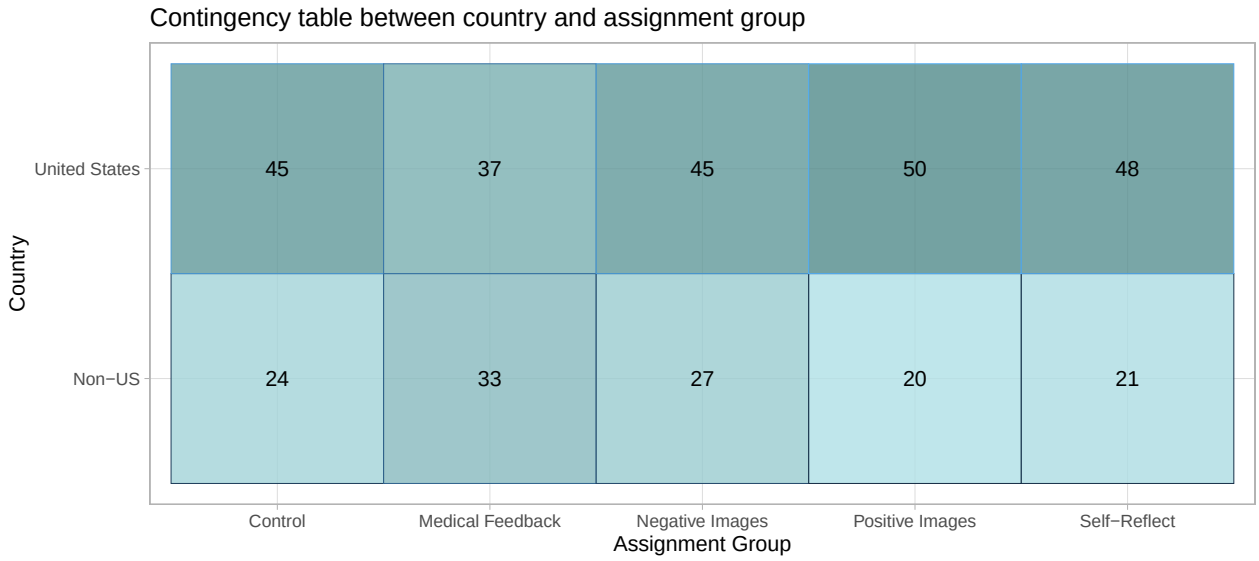
```
# TODO format figures and captions
# out.width = "80%"
# check balance between US and non-US respondents

us_chisq <- chisq.test(d_respondents[ , table(Assignment_Group, US_Dummy)])
pander(us_chisq,style='rmarkdown')
```

Table 8: Pearson's Chi-squared test: `d_respondents[, table(Assignment_Group, US_Dummy)]`

Test statistic	df	P value
6.502	4	0.1647

```
create_heatmap(var1 = d_respondents$Assignment_Group,var2 = d_respondents$US_Dummy) +
  xlab('Assignment Group') +
  ylab('Country') +
  scale_y_discrete(breaks=c("0", "1"),
                   labels=c("Non-US", "United States")) +
  labs(title = 'Contingency table between country and assignment group',
       caption = paste0('Assuming country distributions are the same among assignment groups, a chi-squa
                        round(us_chisq$parameter,4),' degrees of freedom ', 'yields p=',
```

```
                        round(us_chisq$p.value,4),
                        ', suggesting that there is no relationship between country and assignment \ngr
  theme(plot.caption = element_text(hjust = 0))
```




```
# ATE of treatment on Total Score

d_respondents[ Treatment_Dummy == 1, mean(Total_Score)] - d_respondents[ Treatment_Dummy == 0, mean(Tota
```

```
## [1] 0.5143
```

```
sd(d_respondents$Total_Score)
```

```
## [1] 3.743
```

```
# ATE of treatment on TaskPhase2 Score

d_respondents[ Treatment_Dummy == 1, mean(TaskPhase2_Score)] - d_respondents[ Treatment_Dummy == 0, mean
```

```
## [1] 0.05337
```

```
sd(d_respondents$TaskPhase2_Score)
```

```
## [1] 0.1645
```

```
#trying 2SLS...but dont think it applies here

# d_respondents[ , lm(Total_Score ~ Education_Level)]
# d_respondents[ , ivreg(Total_Score ~ Education_Level | Assignment_Group)]
```

```
power.t.test( delta = .05, sd=.16, sig.level = 0.05, power=0.8)
```

```
##
##      Two-sample t test power calculation
##
##               n = 161.7
##           delta = 0.05
##              sd = 0.16
```

```
##       sig.level = 0.05
##           power = 0.8
##     alternative = two.sided
##
## NOTE: n is number in *each* group
```

Analysis

Helper Functions

```
get_robust_se <- function(model){
  # Get robust SE for use in stargazer
  vcov <- vcovHC(model,type = "HC1")
  return(sqrt(diag(vcov)))
}
```

Task Phase 2 Analysis

```
# does any treatment have an effect on task phase 2 score?
mod_task2_a <- d_respondents[, lm(TaskPhase2_Score ~ Treatment_Dummy)]

mod_task2_b <- d_respondents[, lm(TaskPhase2_Score ~ Treatment_Dummy +
                                                     TaskPhase1_Score +
                                                     as.factor(Gender) +
                                                     as.factor(Education_Level) +
                                                     as.factor(Age_Range))]


stargazer(mod_task2_a,
          mod_task2_b,
          se = list(get_robust_se(mod_task2_a),get_robust_se(mod_task2_b)),
          omit = c("Education_Level","Age_Range"),
          add.lines = list(c('Education Fixed Effects', 'No','Yes'),
                           c('Age Fixed Effects','No','Yes')),
          header=FALSE,
          type='latex')
```

```
#add an F test to compare
pander(anova(mod_task2_a, mod_task2_b, test='F'),stle='rmarkdown')
```

Table 10: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
348	9.287	NA	NA	NA	NA
336	8.338	12	0.9498	3.19	0.0002426

```
#does the specific treatment group have an effect on task phase 2 score?
mod_task2_c <- d_respondents[, lm(TaskPhase2_Score ~ as.factor(Assignment_Group))]

mod_task2_d <- d_respondents[, lm(TaskPhase2_Score ~ as.factor(Assignment_Group) +
                                                     TaskPhase1_Score +
                                                     as.factor(Gender) +
                                                     as.factor(Education_Level) +
```

Table 9:

	Dependent variable:	
	TaskPhase2_Score	
	(1)	(2)
Treatment_Dummy	0.053**	0.051**
	(0.022)	(0.022)
TaskPhase1_Score		0.240***
		(0.047)
as.factor(Gender)Male		−0.010
		(0.017)
Constant	0.461***	0.281***
	(0.019)	(0.072)
Education Fixed Effects	No	Yes
Age Fixed Effects	No	Yes
Observations	350	350
R^2	0.017	0.117
Adjusted R^2	0.014	0.083
Residual Std. Error	0.163 (df = 348)	0.158 (df = 336)
F Statistic	5.911** (df = 1; 348)	3.433*** (df = 13; 336)
Note:		*p<0.1; **p<0.05; ***p<0.01

```r
                                                      as.factor(Age_Range))]

# Do you think that there are features of the data that might systematically predict that people will r
# TODO update this heterogeneity issue. I'm not quite sure this applies because they're both considered
# mod5 <- d_respondents[, lm(TaskPhase2_Score ~ Treatment_Dummy + as.factor(assign_bin) +
#                               Treatment_Dummy * as.factor(assign_bin))]
stargazer(mod_task2_c,
          mod_task2_d,
          se = list(get_robust_se(mod_task2_c),get_robust_se(mod_task2_d)),
          omit = c("Education_Level","Age_Range"),
          add.lines = list(c('Education Fixed Effects', 'No','Yes'),
                           c('Age Fixed Effects','No','Yes')),
          header=FALSE,
          type='text')
```

==
Dependent variable:

------------------------------ TaskPhase2_Score

(1) (2)

-- as.factor(Assignment_Group)Medical

Feedback 0.062** 0.055*
(0.027) (0.029)

as.factor(Assignment_Group)Negative Images 0.034 0.039
(0.027) (0.027)

as.factor(Assignment_Group)Positive Images 0.053* 0.050*
(0.029) (0.027)

as.factor(Assignment_Group)Self-Reflect 0.065** 0.058**
(0.028) (0.029)

TaskPhase1_Score 0.238***
(0.048)

as.factor(Gender)Male -0.010
(0.017)

Constant 0.461*** 0.282***
(0.019) (0.073)

Education Fixed Effects No Yes
Age Fixed Effects No Yes
Observations 350 350
R2 0.021 0.119
Adjusted R2 0.010 0.076
Residual Std. Error 0.164 (df = 345) 0.158 (df = 333)
F Statistic 1.874 (df = 4; 345) 2.805*** (df = 16; 333) ==
Note: *p<0.1;* ***p<0.05;*** p<0.01

```r
pander(anova(mod_task2_c, mod_task2_d, test='F'),style='rmarkdown')
```

Table 11: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
345	9.244	NA	NA	NA	NA
333	8.323	12	0.921	3.071	0.0003943

Task Phase 3 Analysis

```
# test final task and any treatment
mod_task3_a <- d_respondents[, lm(TaskPhase3_Score ~ Treatment_Dummy)]
mod_task3_b <- d_respondents[, lm(TaskPhase3_Score ~ Treatment_Dummy +
                                                     TaskPhase1_Score +
                                                     as.factor(Gender) +
                                                     as.factor(Education_Level) +
                                                     as.factor(Age_Range))]

stargazer(mod_task3_a,
          mod_task3_b,
          se = list(get_robust_se(mod_task3_a),get_robust_se(mod_task3_b)),
          omit = c("Education_Level","Age_Range"),
          add.lines = list(c('Education Fixed Effects', 'No','Yes'),
                           c('Age Fixed Effects','No','Yes')),
          header=FALSE,
          type='latex')
```

Table 12:

	Dependent variable:	
	TaskPhase3_Score	
	(1)	(2)
Treatment_Dummy	0.004	0.002
	(0.019)	(0.019)
TaskPhase1_Score		0.161***
		(0.047)
as.factor(Gender)Male		−0.004
		(0.017)
Constant	0.538***	0.515***
	(0.017)	(0.064)
Education Fixed Effects	No	Yes
Age Fixed Effects	No	Yes
Observations	350	350
R^2	0.0001	0.084
Adjusted R^2	−0.003	0.049
Residual Std. Error	0.160 (df = 348)	0.155 (df = 336)
F Statistic	0.034 (df = 1; 348)	2.384*** (df = 13; 336)
Note:		*p<0.1; **p<0.05; ***p<0.01

```r
pander(anova(mod_task3_a, mod_task3_b, test='F'),style='rmarkdown')
```

Table 13: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
348	8.865	NA	NA	NA	NA
336	8.117	12	0.7479	2.58	0.002743

```r
# test final task and specific treatment
mod_task3_c <- d_respondents[, lm(TaskPhase3_Score ~ as.factor(Assignment_Group))]
mod_task3_d <- d_respondents[, lm(TaskPhase3_Score ~ as.factor(Assignment_Group) +
                                                     TaskPhase1_Score +
                                                     as.factor(Gender) +
                                                     as.factor(Education_Level) +
                                                     as.factor(Age_Range))]

stargazer(mod_task3_c,
          mod_task3_d,
          se = list(get_robust_se(mod_task3_c),get_robust_se(mod_task3_d)),
          omit = c("Education_Level","Age_Range"),
          add.lines = list(c('Education Fixed Effects', 'No','Yes'),
                           c('Age Fixed Effects','No','Yes')),
          header=FALSE,
          type='text')
```

==

Dependent variable:

TaskPhase3_Score

(1) (2)

as.factor(Assignment_Group)Medical

Feedback 0.022 0.011
(0.026) (0.026)

as.factor(Assignment_Group)Negative Images -0.015 -0.011
(0.027) (0.026)

as.factor(Assignment_Group)Positive Images -0.001 0.004
(0.025) (0.025)

as.factor(Assignment_Group)Self-Reflect 0.010 0.005
(0.026) (0.026)

TaskPhase1_Score 0.157***
(0.047)

as.factor(Gender)Male -0.004
(0.017)

Constant 0.538*** 0.518***
(0.017) (0.064)

Education Fixed Effects No Yes
Age Fixed Effects No Yes
Observations 350 350

R2 0.006 0.087
Adjusted R2 -0.005 0.043
Residual Std. Error 0.160 (df = 345) 0.156 (df = 333)
F Statistic 0.545 (df = 4; 345) 1.971** (df = 16; 333) ==========
Note: *p<0.1;* ***p<0.05;*** p<0.01

```
pander(anova(mod_task3_c, mod_task3_d, test='F'),style='rmarkdown')
```

Table 14: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
345	8.81	NA	NA	NA	NA
333	8.099	12	0.7113	2.437	0.004751

Wearing Off Effects

```
# TODO add within subjects design: Phase2 against Phase1 or Phase2&3 together against Phase1
# factor(ID)

# TODO d_respondents[ , lm(mean(TaskPhase3_Score,TaskPhase2_Score) ~  Assignment_Group + TaskPhase1_Sco
# TODO d_respondents[ , lm(TaskPhaseB ~  Assignment_Group + TaskPhaseA + as.factor(AmazonTurk_ID))] whe
# TODO move Gender Male covariate to the bottome fixed effect

mod_task3_e <- d_respondents[ , lm(TaskPhase3_Score ~ TaskPhase2_Score)]
mod_task3_f <- d_respondents[ , lm(TaskPhase3_Score ~ TaskPhase2_Score + Treatment_Dummy)]
mod_task3_g <- d_respondents[ , lm(TaskPhase3_Score ~ TaskPhase2_Score + as.factor(Assignment_Group))]
mod_task3_h <- d_respondents[ , lm(TaskPhase3_Score ~ TaskPhase2_Score +
                                                      as.factor(Assignment_Group) +
                                                      as.factor(Gender) +
                                                      as.factor(Education_Level) +
                                                      as.factor(Age_Range))]


stargazer(mod_task3_e,
          mod_task3_f,
          mod_task3_g,
          mod_task3_h,
          se = list(get_robust_se(mod_task3_e),
                    get_robust_se(mod_task3_f),
                    get_robust_se(mod_task3_h)),
                    get_robust_se(mod_task3_g),
          omit = c("Education_Level","Age_Range"),
          add.lines = list(c('Education Fixed Effects', 'No','No','No','Yes'),
                           c('Age Fixed Effects','No','No','No','Yes')),
          covariate.labels = c("Task Phase 2 Score", "Any Treatment", "Medical Feedback",
                               "Negative Images", "Positive Images", "Self-reflection",'Male'),
          header=FALSE,
          type='latex')
```

```
pander(anova(mod_task3_e, mod_task3_f, test='F'),style='rmarkdown')
```

Table 15:

	Dependent variable:			
	TaskPhase3_Score			
	(1)	(2)	(3)	(4)
Task Phase 2 Score	0.239***	0.242***	0.238***	0.241***
	(0.050)	(0.051)	(0.052)	(0.051)
Any Treatment		−0.009		
		(0.019)		
Medical Feedback			0.008	0.001
			(0.027)	(0.027)
Negative Images			−0.023	−0.023
			(0.026)	(0.026)
Positive Images			−0.013	−0.007
			(0.025)	(0.026)
Self-reflection			−0.005	−0.010
			(0.025)	(0.027)
Male				−0.003
				(0.017)
Constant	0.420***	0.426***	0.428***	0.520***
	(0.026)	(0.028)	(0.062)	(0.062)
Education Fixed Effects	No	No	No	Yes
Age Fixed Effects	No	No	No	Yes
Observations	350	350	350	350
R^2	0.061	0.061	0.065	0.113
Adjusted R^2	0.058	0.056	0.052	0.070
Residual Std. Error	0.155 (df = 348)	0.155 (df = 347)	0.155 (df = 344)	0.154 (df = 3
F Statistic	22.540*** (df = 1; 348)	11.330*** (df = 2; 347)	4.815*** (df = 5; 344)	2.654*** (df = 1
Note:				*p<0.1; **p<0.05; ***p

Table 16:

Task Phase 2 Score	Any Treatment	Medical Feedback	Negative Images	Positive Images	Self-reflection
0.028	0.051	0.026	0.026	0.025	0.024

Table 17: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
348	8.326	NA	NA	NA	NA
347	8.322	1	0.004358	0.1817	0.6702

```
pander(anova(mod_task3_g, mod_task3_h, test='F'),style='rmarkdown')
```

Table 18: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
344	8.286	NA	NA	NA	NA
333	7.863	11	0.4227	1.627	0.08955

Within Subjects Design

```
d_respondents[,score_phase2_3 := mean(TaskPhase2_Score,TaskPhase3_Score,na.rm = FALSE),by = (Amazon_Turk
```

```
## Warning in `[.data.table`(d_respondents, , `:=`(score_phase2_3,
## mean(TaskPhase2_Score, : Unable to optimize call to mean() and could be very
## slow. You must name 'na.rm' like that otherwise if you do mean(x,TRUE) the TRUE
## is taken to mean 'trim' which is the 2nd argument of mean. 'trim' is not yet
## optimized.
```

```
test <- d_respondents[ , lm(score_phase2_3 ~ Assignment_Group + TaskPhase1_Score)]
stargazer(test,se = list(get_robust_se(test)),type='text'
)
```

```
##
## ===============================================================
##                                      Dependent variable:
##                                  ---------------------------
##                                         score_phase2_3
## ---------------------------------------------------------------
## Assignment_GroupMedical Feedback             0.055**
##                                              (0.027)
##
## Assignment_GroupNegative Images               0.041
##                                              (0.026)
##
## Assignment_GroupPositive Images              0.052*
##                                              (0.027)
##
## Assignment_GroupSelf-Reflect                 0.067**
##                                              (0.028)
##
## TaskPhase1_Score                            0.247***
##                                              (0.045)
##
## Constant                                    0.311***
##                                              (0.032)
##
```

```
## ------------------------------------------------------------
## Observations                                    350
## R2                                             0.100
## Adjusted R2                                    0.087
## Residual Std. Error                     0.157 (df = 344)
## F Statistic                          7.674*** (df = 5; 344)
## ============================================================
## Note:                              *p<0.1; **p<0.05; ***p<0.01
```

```
##
mod_task3_i <- d_respondents[ , lm(TaskPhase3_Score ~ TaskPhase1_Score + TaskPhase2_Score)]
mod_task3_j <- d_respondents[ , lm(TaskPhase3_Score ~ TaskPhase1_Score + TaskPhase2_Score + Treatment_Du
mod_task3_k <- d_respondents[ , lm(TaskPhase3_Score ~ TaskPhase1_Score + TaskPhase2_Score + as.factor(As
mod_task3_l <- d_respondents[, lm(TaskPhase3_Score ~ TaskPhase1_Score + TaskPhase2_Score +
                                                     as.factor(Assignment_Group) +
                                                     as.factor(Gender) +
                                                     as.factor(Education_Level) +
                                                     as.factor(Age_Range))]

stargazer(mod_task3_i,
          mod_task3_j,
          mod_task3_k,
          mod_task3_l,
          se = list(get_robust_se(mod_task3_i),
                    get_robust_se(mod_task3_j),
                    get_robust_se(mod_task3_k),
                    get_robust_se(mod_task3_l)),
          header=FALSE,
          type='latex')
```

```
pander(anova(mod_task3_i, mod_task3_j, test = 'F'),style='rmarkdown')
```

Table 20: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
347	8.181	NA	NA	NA	NA
346	8.178	1	0.002531	0.1071	0.7437

```
pander(anova(mod_task3_k, mod_task3_l, test = 'F'),style='rmarkdown')
```

Table 21: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
343	8.151	NA	NA	NA	NA
332	7.739	11	0.4128	1.61	0.09435

```
# lm(TaskPhase3_Score ~ TaskPhase2_Score) vs lm(TaskPhase3_Score ~ TaskPhase1_Score + TaskPhase2_Score)
pander(anova(mod_task3_e, mod_task3_i, test = 'F'),style='rmarkdown')
```

Table 19:

	Dependent variable:		
	TaskPhase3_Score		
	(1)	(2)	(3)
TaskPhase1_Score	0.113**	0.113**	0.109*
	(0.046)	(0.046)	(0.046
TaskPhase2_Score	0.202***	0.204***	0.202**
	(0.053)	(0.054)	(0.053
Treatment_Dummy		−0.007	
		(0.019)	
as.factor(Assignment_Group)Medical Feedback			0.007
			(0.026
as.factor(Assignment_Group)Negative Images			−0.01
			(0.026
as.factor(Assignment_Group)Positive Images			−0.01
			(0.024
as.factor(Assignment_Group)Self-Reflect			−0.00
			(0.024
as.factor(Gender)Male			
as.factor(Education_Level)Bachelor's degree			
as.factor(Education_Level)High school			
as.factor(Education_Level)Master's degree and above			
as.factor(Education_Level)Some high school			
as.factor(Education_Level)Trade school			
as.factor(Age_Range)25-34			
as.factor(Age_Range)35-44			
as.factor(Age_Range)45-54			
as.factor(Age_Range)55-64			
as.factor(Age_Range)Above 65			

Table 22: Analysis of Variance Table

Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
348	8.326	NA	NA	NA	NA
347	8.181	1	0.1455	6.172	0.01345

Playground

```
# compare self-reflect against medical feedback groups?
#make dummies
d_respondents[ , Self_Reflect_Dummy := ifelse(Assignment_Group == "Self-Reflect", 1, 0)]
d_respondents[ , Med_Feedback_Dummy := ifelse(Assignment_Group == "Medical Feedback", 1, 0)]

mod_test_dummies1 <- d_respondents[ , lm(TaskPhase2_Score ~ Treatment_Dummy + Self_Reflect_Dummy)]
mod_test_dummies2 <- d_respondents[ , lm(TaskPhase2_Score ~ Treatment_Dummy + Med_Feedback_Dummy)]

stargazer(mod_test_dummies1,
          mod_test_dummies2,
          se = list(get_robust_se(mod_test_dummies1),
                    get_robust_se(mod_test_dummies2)),
          header=FALSE,
          type = 'latex')
```

```
##
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lcc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
##  & \multicolumn{2}{c}{\textit{Dependent variable:}} \\
## \cline{2-3}
## \\[-1.8ex] & \multicolumn{2}{c}{TaskPhase2\_Score} \\
## \\[-1.8ex] & (1) & (2)\\
## \hline \\[-1.8ex]
##  Treatment\_Dummy & 0.050$^{**}$ & 0.051$^{**}$ \\
##   & (0.022) & (0.023) \\
##   & & \\
##  Self\_Reflect\_Dummy & 0.016 &  \\
##   & (0.023) &  \\
##   & & \\
##  Med\_Feedback\_Dummy &  & 0.011 \\
##   &  & (0.022) \\
##   & & \\
##  Constant & 0.461$^{***}$ & 0.461$^{***}$ \\
##   & (0.019) & (0.019) \\
##   & & \\
## \hline \\[-1.8ex]
## Observations & 350 & 350 \\
## R$^{2}$ & 0.018 & 0.017 \\
## Adjusted R$^{2}$ & 0.012 & 0.012 \\
## Residual Std. Error (df = 347) & 0.163 & 0.164 \\
## F Statistic (df = 2; 347) & 3.192$^{**}$ & 3.079$^{**}$ \\
```

```
## \hline
## \hline \\[-1.8ex]
## \textit{Note:}  & \multicolumn{2}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
## \end{tabular}
## \end{table}
```

```
# compare positive images against negative images feedback groups?
#make dummies
d_respondents[ , Positive_Images_Dummy := ifelse(Assignment_Group == "Positive Images", 1, 0)]
d_respondents[ , Negative_Images_Dummy := ifelse(Assignment_Group == "Negative Images", 1, 0)]

mod_test_dummies3 <- d_respondents[ , lm(TaskPhase2_Score ~ Treatment_Dummy + Positive_Images_Dummy)]
mod_test_dummies4 <- d_respondents[ , lm(TaskPhase2_Score ~ Treatment_Dummy + Negative_Images_Dummy)]

stargazer(mod_test_dummies3,
          mod_test_dummies4,
          se = list(get_robust_se(mod_test_dummies3),
                    get_robust_se(mod_test_dummies4)),
          type = 'text')
```

```
##
## ===========================================================
##                                   Dependent variable:
##                               ----------------------------
##                                      TaskPhase2_Score
##                                   (1)            (2)
## -----------------------------------------------------------
## Treatment_Dummy                  0.053**       0.060***
##                                  (0.022)        (0.023)
##
## Positive_Images_Dummy             0.0001
##                                  (0.024)
##
## Negative_Images_Dummy                           -0.027
##                                                 (0.022)
##
## Constant                         0.461***      0.461***
##                                  (0.019)        (0.019)
##
## -----------------------------------------------------------
## Observations                       350            350
## R2                                0.017          0.021
## Adjusted R2                       0.011          0.015
## Residual Std. Error (df = 347)    0.164          0.163
## F Statistic (df = 2; 347)         2.947*        3.670**
## ===========================================================
## Note:                          *p<0.1; **p<0.05; ***p<0.01
```

Playground 2

```
### linear model playground
d_test <- d_respondents[,c("Assignment_Group","TaskPhase1_Score","TaskPhase2_Score","TaskPhase3_Score",

#does treatment have an effect on total score?
```

```r
mod_test1 <- d_test[ , lm(TaskPhase2_Score ~ TaskPhase1_Score + Treatment_Dummy)]


mod_test2 <- d_test[, lm(TaskPhase2_Score ~ TaskPhase1_Score + Treatment_Dummy + (TaskPhase1_Score * Tr

#does treatment and pretreatment score have an effect on total score?


###
# seems that if i ad in TaskPhase1 to the linear model, the RSEs disappear...
mod_test3 <- d_test[, lm(TaskPhase2_Score ~  Treatment_Dummy  +
                                TaskPhase1_Score +
                                as.factor(Education_Level) +
                                as.factor(Gender) +
                                as.factor(Age_Range)
                         )]

coeftest(mod_test3, vcov = vcovHC(mod_test3,"HC1"))
```

```
##
## t test of coefficients:
##
##                                                 Estimate Std. Error t value
## (Intercept)                                      0.28108    0.07213    3.90
## Treatment_Dummy                                  0.05071    0.02217    2.29
## TaskPhase1_Score                                 0.24027    0.04682    5.13
## as.factor(Education_Level)Bachelor's degree     -0.00683    0.04856   -0.14
## as.factor(Education_Level)High school            0.04068    0.05619    0.72
## as.factor(Education_Level)Master's degree and above -0.01698    0.05128   -0.33
## as.factor(Education_Level)Some high school      -0.12065    0.05108   -2.36
## as.factor(Education_Level)Trade school           0.02867    0.06926    0.41
## as.factor(Gender)Male                           -0.00995    0.01735   -0.57
## as.factor(Age_Range)25-34                        0.04469    0.03768    1.19
## as.factor(Age_Range)35-44                        0.04198    0.03952    1.06
## as.factor(Age_Range)45-54                        0.06975    0.04178    1.67
## as.factor(Age_Range)55-64                        0.08035    0.04252    1.89
## as.factor(Age_Range)Above 65                     0.12575    0.05172    2.43
##                                                 Pr(>|t|)
## (Intercept)                                      0.00012 ***
## Treatment_Dummy                                  0.02281 *
## TaskPhase1_Score                                 4.9e-07 ***
## as.factor(Education_Level)Bachelor's degree      0.88827
## as.factor(Education_Level)High school            0.46957
## as.factor(Education_Level)Master's degree and above  0.74080
## as.factor(Education_Level)Some high school       0.01874 *
## as.factor(Education_Level)Trade school           0.67922
## as.factor(Gender)Male                            0.56658
## as.factor(Age_Range)25-34                        0.23642
## as.factor(Age_Range)35-44                        0.28890
## as.factor(Age_Range)45-54                        0.09593 .
## as.factor(Age_Range)55-64                        0.05968 .
## as.factor(Age_Range)Above 65                     0.01556 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```r
summary(d_respondents$TaskPhase1_Score)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.200   0.500   0.600   0.606   0.700   1.000
```

```r
stargazer(mod_test1,
          mod_test2,
          mod_test3,
          se = list(get_robust_se(mod_test1),get_robust_se(mod_test2), get_robust_se(mod_test3)),
          type='latex')
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Mon, Dec 07, 2020 - 18:11:36
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
##  & \multicolumn{3}{c}{\textit{Dependent variable:}} \\
## \cline{2-4}
## \\[-1.8ex] & \multicolumn{3}{c}{TaskPhase2\_Score} \\
## \\[-1.8ex] & (1) & (2) & (3)\\
## \hline \\[-1.8ex]
##  TaskPhase1\_Score & 0.249$^{***}$ & 0.153 & 0.240$^{***}$ \\
##   & (0.044) & (0.095) & (0.047) \\
##   & & & \\
##  as.factor(Education\_Level)Bachelor's degree &  &  & $-$0.007 \\
##   &  &  & (0.049) \\
##   & & & \\
##  as.factor(Education\_Level)High school &  &  & 0.041 \\
##   &  &  & (0.056) \\
##   & & & \\
##  as.factor(Education\_Level)Master's degree and above &  &  & $-$0.017 \\
##   &  &  & (0.051) \\
##   & & & \\
##  as.factor(Education\_Level)Some high school &  &  & $-$0.121$^{**}$ \\
##   &  &  & (0.051) \\
##   & & & \\
##  as.factor(Education\_Level)Trade school &  &  & 0.029 \\
##   &  &  & (0.069) \\
##   & & & \\
##  as.factor(Gender)Male &  &  & $-$0.010 \\
##   &  &  & (0.017) \\
##   & & & \\
##  as.factor(Age\_Range)25-34 &  &  & 0.045 \\
##   &  &  & (0.038) \\
##   & & & \\
##  as.factor(Age\_Range)35-44 &  &  & 0.042 \\
##   &  &  & (0.040) \\
##   & & & \\
##  as.factor(Age\_Range)45-54 &  &  & 0.070$^{*}$ \\
##   &  &  & (0.042) \\
```

```
##   & & & \\
##  as.factor(Age\_Range)55-64 &  &  & 0.080$^{*}$ \\
##   &  &  & (0.043) \\
##   & & & \\
##  as.factor(Age\_Range)Above 65 &  &  & 0.126$^{**}$ \\
##   &  &  & (0.052) \\
##   & & & \\
##  Treatment\_Dummy & 0.054$^{**}$ & $-$0.019 & 0.051$^{**}$ \\
##   & (0.021) & (0.065) & (0.022) \\
##   & & & \\
##  TaskPhase1\_Score:Treatment\_Dummy &  & 0.120 &  \\
##   &  & (0.107) &  \\
##   & & & \\
##  Constant & 0.310$^{***}$ & 0.368$^{***}$ & 0.281$^{***}$ \\
##   & (0.032) & (0.057) & (0.072) \\
##   & & & \\
## \hline \\[-1.8ex]
## Observations & 350 & 350 & 350 \\
## R$^{2}$ & 0.098 & 0.101 & 0.117 \\
## Adjusted R$^{2}$ & 0.092 & 0.093 & 0.083 \\
## Residual Std. Error & 0.157 (df = 347) & 0.157 (df = 346) & 0.158 (df = 336) \\
## F Statistic & 18.780$^{***}$ (df = 2; 347) & 12.920$^{***}$ (df = 3; 346) & 3.433$^{***}$ (df = 13; 3
## \hline
## \hline \\[-1.8ex]
## \textit{Note:}  & \multicolumn{3}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
## \end{tabular}
## \end{table}
```

```
mod_test4 <- d_test[ , lm(TaskPhase3_Score ~ TaskPhase2_Score)]
coeftest(mod_test4)
```

```
##
## t test of coefficients:
##
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)        0.4205     0.0267   15.77   <2e-16 ***
## TaskPhase2_Score   0.2389     0.0503    4.75    3e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
# use Robust SE
mod_test2 <- d_respondents[, lm(TaskPhase2_Score ~ Treatment_Dummy  + as.factor(Education_Level) + (Trea
mod_test2$vcovHC_ <- vcovHC(mod_test2)
coeftest(mod_test2, vcov = mod_test2$vcovHC_)
```

```
##
## t test of coefficients:
##
##                                                                Estimate
## (Intercept)                                                     0.53333
## Treatment_Dummy                                                 0.00667
## as.factor(Education_Level)Bachelor's degree                    -0.07424
## as.factor(Education_Level)High school                          -0.03333
## as.factor(Education_Level)Master's degree and above            -0.07333
## as.factor(Education_Level)Some high school                     -0.14000
## as.factor(Education_Level)Trade school                         -0.23333
```

```
## Treatment_Dummy:as.factor(Education_Level)Bachelor's degree          0.04142
## Treatment_Dummy:as.factor(Education_Level)High school                0.07515
## Treatment_Dummy:as.factor(Education_Level)Master's degree and above  0.04386
## Treatment_Dummy:as.factor(Education_Level)Trade school               0.30762
##                                                                    Std. Error
## (Intercept)                                                                NA
## Treatment_Dummy                                                            NA
## as.factor(Education_Level)Bachelor's degree                                NA
## as.factor(Education_Level)High school                                      NA
## as.factor(Education_Level)Master's degree and above                        NA
## as.factor(Education_Level)Some high school                                 NA
## as.factor(Education_Level)Trade school                                     NA
## Treatment_Dummy:as.factor(Education_Level)Bachelor's degree                NA
## Treatment_Dummy:as.factor(Education_Level)High school                      NA
## Treatment_Dummy:as.factor(Education_Level)Master's degree and above        NA
## Treatment_Dummy:as.factor(Education_Level)Trade school                     NA
##                                                                    t value
## (Intercept)                                                             NA
## Treatment_Dummy                                                         NA
## as.factor(Education_Level)Bachelor's degree                             NA
## as.factor(Education_Level)High school                                   NA
## as.factor(Education_Level)Master's degree and above                     NA
## as.factor(Education_Level)Some high school                              NA
## as.factor(Education_Level)Trade school                                  NA
## Treatment_Dummy:as.factor(Education_Level)Bachelor's degree             NA
## Treatment_Dummy:as.factor(Education_Level)High school                   NA
## Treatment_Dummy:as.factor(Education_Level)Master's degree and above     NA
## Treatment_Dummy:as.factor(Education_Level)Trade school                  NA
##                                                                    Pr(>|t|)
## (Intercept)                                                              NA
## Treatment_Dummy                                                          NA
## as.factor(Education_Level)Bachelor's degree                              NA
## as.factor(Education_Level)High school                                    NA
## as.factor(Education_Level)Master's degree and above                      NA
## as.factor(Education_Level)Some high school                               NA
## as.factor(Education_Level)Trade school                                   NA
## Treatment_Dummy:as.factor(Education_Level)Bachelor's degree              NA
## Treatment_Dummy:as.factor(Education_Level)High school                    NA
## Treatment_Dummy:as.factor(Education_Level)Master's degree and above      NA
## Treatment_Dummy:as.factor(Education_Level)Trade school                   NA
```

Noncompliance

EDA for noncompliance? time spent on a page how many words written

```
# renaming Control Clicks Phase 1 - submit after 70, advance after 180 seconds
setnames(d_respondents,
         old = c('Q70_First Click', 'Q70_Last Click',
                 'Q70_Page Submit', 'Q70_Click Count'),
         new = c('Control_Phase1_First_ClickTime', 'Control_Phase1_Last_ClickTime',
                 'Control_Phase1_SubmitTime', 'Control_Phase1_NumClicks'))

# renaming Control Clicks Phase 2 - submit after 70, advance after 180 seconds
setnames(d_respondents,
```

```
        old = c('Q90_First Click', 'Q90_Last Click',
                'Q90_Page Submit', 'Q90_Click Count'),
        new = c('Control_Phase2_First_ClickTime', 'Control_Phase2_Last_ClickTime',
                'Control_Phase2_SubmitTime', 'Control_Phase2_NumClicks'))

# renaming Self Reflect Clicks Phase 1 - submit after 90, advance after 240 seconds
setnames(d_respondents,
        old = c('Q61_First Click', 'Q61_Last Click',
                'Q61_Page Submit', 'Q61_Click Count'),
        new = c('Self_Reflect_Phase1_First_ClickTime', 'Self_Reflect_Phase1_Last_ClickTime',
                'Self_Reflect_Phase1_SubmitTime', 'Self_Reflect_Phase1_NumClicks'))

# renaming Self Reflect Clicks Phase 2 - submit after 90, advance after 240 seconds
setnames(d_respondents,
        old = c('Q62_First Click', 'Q62_Last Click',
                'Q62_Page Submit', 'Q62_Click Count'),
        new = c('Self_Reflect_Phase2_First_ClickTime', 'Self_Reflect_Phase2_Last_ClickTime',
                'Self_Reflect_Phase2_SubmitTime', 'Self_Reflect_Phase2_NumClicks'))

# renaming Medical Feedback Clicks Phase 1 - submit after 90, advance after 240 seconds
setnames(d_respondents,
        old = c('Q63_First Click', 'Q63_Last Click',
                'Q63_Page Submit', 'Q63_Click Count'),
        new = c('Medical_Feedback_Phase1_First_ClickTime',
                'Medical_Feedback_Phase1_Last_ClickTime',
                'Medical_Feedback_Phase1_SubmitTime',
                'Medical_Feedback_Phase1_NumClicks'))

# renaming Medical Feedback Clicks Phase 2 - submit after 90, advance after 240 seconds
setnames(d_respondents,
        old = c('Q64_First Click', 'Q64_Last Click',
                'Q64_Page Submit', 'Q64_Click Count'),
        new = c('Medical_Feedback_Phase2_First_ClickTime',
                'Medical_Feedback_Phase2_Last_ClickTime',
                'Medical_Feedback_Phase2_SubmitTime',
                'Medical_Feedback_Phase2_NumClicks'))

# renaming Positive Images Clicks Phase 1 - submit after 45, advance after 120 seconds
setnames(d_respondents,
        old = c('Q65_First Click', 'Q65_Last Click',
                'Q65_Page Submit', 'Q65_Click Count'),
        new = c('Positive_Images_Phase1_First_ClickTime',
                'Positive_Images_Phase1_Last_ClickTime',
                'Positive_Images_Phase1_SubmitTime',
                'Positive_Images_Phase1_NumClicks'))

# renaming Positive Images Clicks Phase 2 - submit after 45, advance after 120 seconds
setnames(d_respondents,
        old = c('Q66_First Click', 'Q66_Last Click',
                'Q66_Page Submit', 'Q66_Click Count'),
        new = c('Positive_Images_Phase2_First_ClickTime',
                'Positive_Images_Phase2_Last_ClickTime',
                'Positive_Images_Phase2_SubmitTime',
```

```
                'Positive_Images_Phase2_NumClicks'))

# renaming Negative Images Clicks Phase 1 - submit after 45, advance after 120 seconds
setnames(d_respondents,
         old = c('Q67_First Click', 'Q67_Last Click',
                 'Q67_Page Submit', 'Q67_Click Count'),
         new = c('Negative_Images_Phase1_First_ClickTime',
                 'Negative_Images_Phase1_Last_ClickTime',
                 'Negative_Images_Phase1_SubmitTime',
                 'Negative_Images_Phase1_NumClicks'))

# renaming Negative Images Clicks Phase 2 - submit after 45, advance after 120 seconds
setnames(d_respondents,
         old = c('Q68_First Click', 'Q68_Last Click',
                 'Q68_Page Submit', 'Q68_Click Count'),
         new = c('Negative_Images_Phase2_First_ClickTime',
                 'Negative_Images_Phase2_Last_ClickTime',
                 'Negative_Images_Phase2_SubmitTime',
                 'Negative_Images_Phase2_NumClicks'))
```

```
################# set up datatable for Treatment Phase 1 Times

a <- d_respondents[ Assignment_Group == "Medical Feedback", Medical_Feedback_Phase1_SubmitTime]
b <- d_respondents[ Assignment_Group == "Control", (Control_Phase1_SubmitTime)]
c <- d_respondents[ Assignment_Group == "Positive Images", (Positive_Images_Phase1_SubmitTime)]
d <- d_respondents[ Assignment_Group == "Negative Images", (Negative_Images_Phase1_SubmitTime)]
e <- d_respondents[ Assignment_Group == "Self-Reflect", (Self_Reflect_Phase1_SubmitTime)]

(coalesce(c(a,b,c,d,e)))
```

```
##   [1] 107.95 141.51 228.40 226.70 126.62 157.59 141.95 103.60  96.09  93.77
##  [11]  94.60 129.87 136.23 147.05 241.36 240.16 203.96 240.15 141.45 212.13
##  [21] 101.12  99.95 138.02 164.38 240.01 240.06 181.14 240.02 278.31 241.96
##  [31] 241.66 240.12 221.91 168.69 189.46  99.44 135.38 139.62 240.04 241.38
##  [41] 240.01 100.79 241.46 108.15 106.83  92.58 240.04  94.16 240.03 173.06
##  [51] 295.90 240.10 109.99 184.11  97.56  95.40 181.97  92.52 155.36 240.07
##  [61] 153.09  91.53 240.08 134.43 108.04  92.08 107.50  93.05 104.39 177.82
##  [71]  77.39 112.55  91.00  76.82 109.72 115.60  90.96  91.94 146.18 180.02
##  [81]  90.61 181.20 124.82 123.99 108.23 130.39 259.14 180.02 180.01 129.07
##  [91] 180.14 167.03 164.08 134.26  81.69 168.80 180.02  92.86 363.50 159.23
## [101] 133.16 278.52 181.90 360.11  76.96 284.23 180.01 176.70 360.32 180.10
## [111] 858.99 132.75 364.31  84.97 364.60 180.03 180.04  86.14 180.14 106.15
## [121] 138.38  99.51 146.66  96.43 123.18  80.80 325.81 180.11 104.32 180.15
## [131] 136.71 127.91 180.15 151.81 180.11 103.89 285.28 121.58  90.96  47.68
## [141]  46.74  57.64  67.05  52.48  69.52  73.39  60.81  64.69  47.05  56.84
## [151]  66.62  57.08 103.76 117.89  56.23  58.22 121.56  49.11  83.92  51.10
## [161]  58.73  59.11  70.01  82.75  89.61  50.74 121.20  71.63  73.68 120.01
## [171] 100.51 120.01 120.02 120.01 120.11 121.93  47.44  48.20 120.01 111.43
## [181] 120.06 120.01 103.33  72.26 120.02  58.19 115.54 120.16  86.35  49.65
## [191] 120.06 120.16  57.20  49.09 120.03 121.34 121.73  47.74 111.00  77.57
## [201]  61.27  66.84  54.06  47.69  63.70  49.96  68.21  99.43  49.00  58.20
## [211]  50.06  46.69  66.32  60.37  49.51  55.57  79.04  62.68 121.60  63.95
## [221] 121.81  49.04  49.73  48.98 120.17 120.11 120.11  75.53 120.06  85.36
## [231]  56.12  46.86 121.14 104.27 120.01 120.01  48.08 120.02 120.11 120.02
```

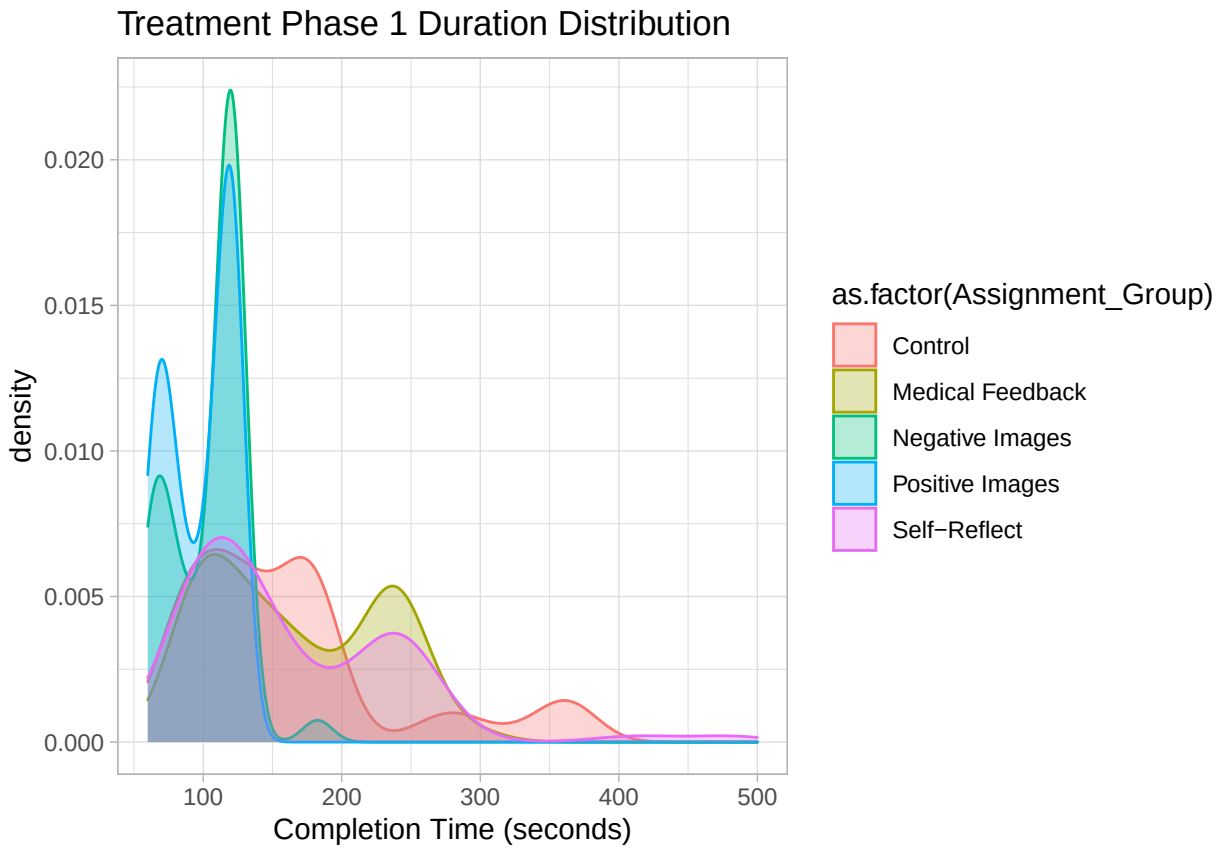
```
## [241]  49.57  60.12  51.73  69.21  53.58 120.01  94.48 120.09  49.27 120.01
## [251] 121.93 120.02 120.07  47.03  50.92 120.03 120.03  90.71  71.84  48.20
## [261] 120.07  54.50  55.77 120.12 120.02 105.54 120.02  48.73 100.54  65.60
## [271] 182.52 120.11  70.81  68.62 120.02  60.65 120.08 120.02  81.93 120.02
## [281]  54.67 111.58  91.65  95.82  91.46  94.77 122.96 123.31 152.53 165.52
## [291]  94.17 132.81 135.27 275.03 118.52 103.34  99.45 141.42 130.00 106.50
## [301] 241.83 241.64 240.02 240.02 146.64 240.02 138.92 411.72 480.02 113.80
## [311] 240.01  96.26 600.86 154.90 199.02 170.26 113.17 101.45 109.95 240.15
## [321] 240.02 117.71  91.82 148.38 240.02 240.18 104.10 241.97 240.09 240.02
## [331]  96.83  96.10 174.05 241.82 136.51  94.42 120.60 118.08 240.04  93.62
## [341] 101.46 128.13 185.42 209.30  92.66 128.99 240.01  93.50 240.13 114.13
```

```
d_noncompliance_1 <- data.table(id=1:350)
d_noncompliance_1[ , Assignment_Group := (c(rep("Medical Feedback", 70), rep("Control", 69), rep("Positi
d_noncompliance_1[ , Treatment_Phase1_SubmitTime := (coalesce(c(a,b,c,d,e)))]


########## plot density distributions of timing for Treatment Phase 1

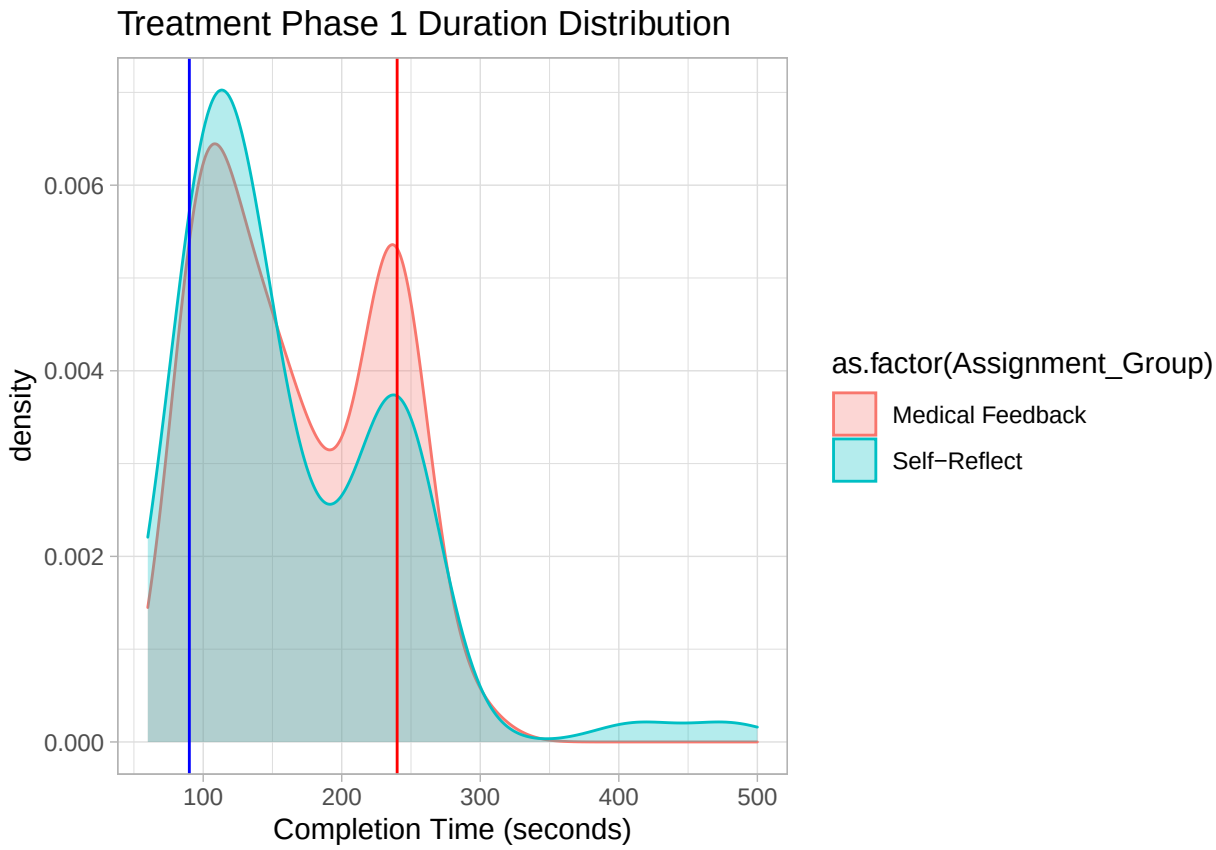
ggplot(d_noncompliance_1, aes(x=Treatment_Phase1_SubmitTime, colour=as.factor(Assignment_Group), fill =
```

```
## Warning: Removed 49 rows containing non-finite values (stat_density).
```

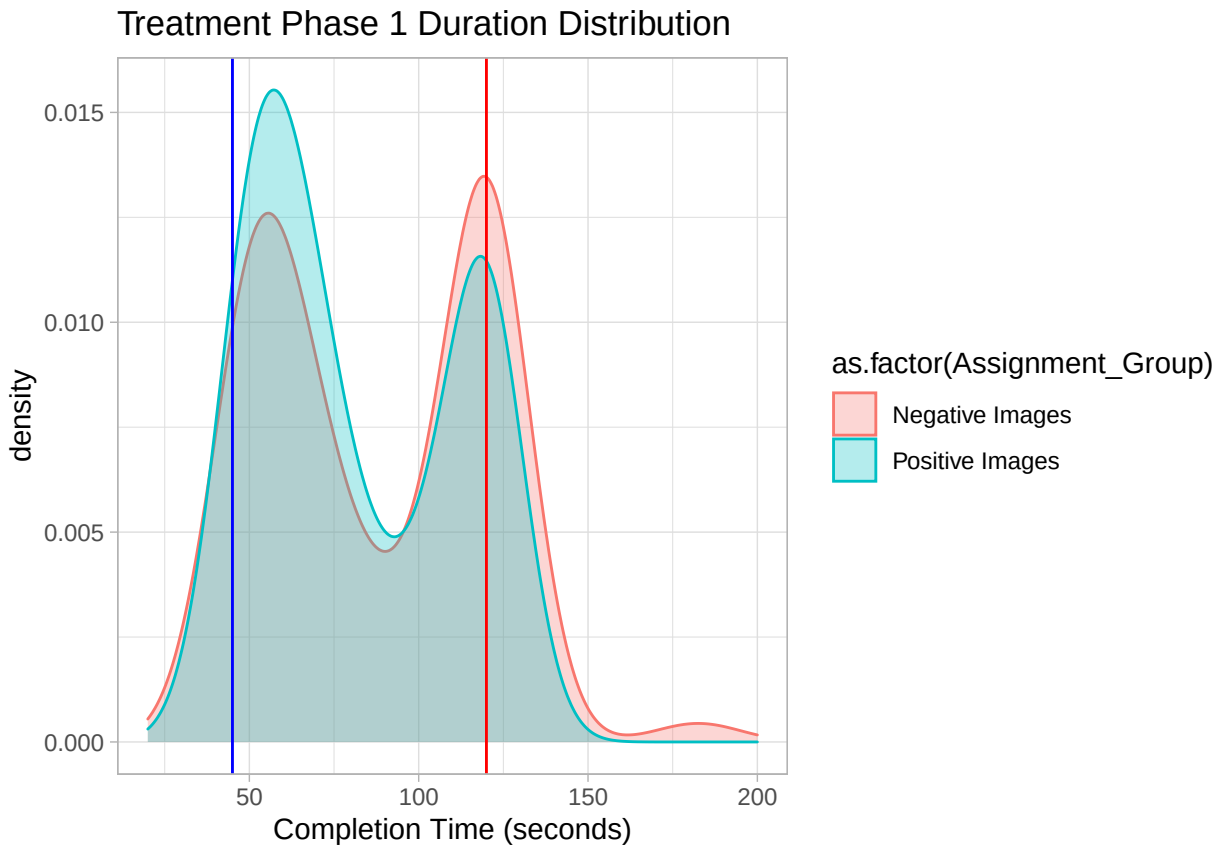



```
ggplot(d_noncompliance_1[Assignment_Group %in% c("Medical Feedback", "Self-Reflect")], aes(x=Treatment_
```

```
## Warning: Removed 1 rows containing non-finite values (stat_density).
```

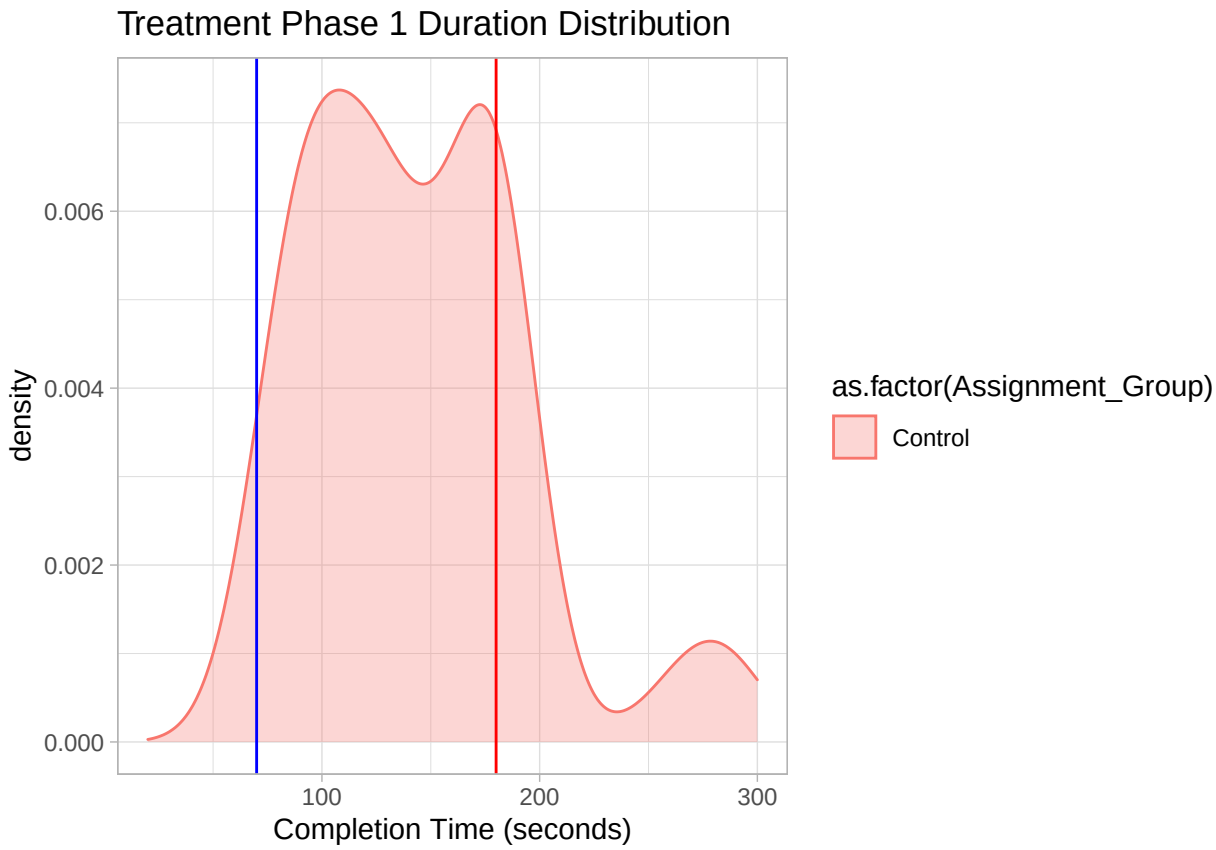



```
ggplot(d_noncompliance_1[Assignment_Group %in% c("Positive Images", "Negative Images")], aes(x=Treatmen
```




```
ggplot(d_noncompliance_1[Assignment_Group %in% c("Control")], aes(x=Treatment_Phase1_SubmitTime, colour=
```

```
## Warning: Removed 7 rows containing non-finite values (stat_density).
```




```
#################### set up datatable for Treatment Phase 2 Times

a <- d_respondents[ Assignment_Group == "Medical Feedback", Medical_Feedback_Phase2_SubmitTime]
b <- d_respondents[ Assignment_Group == "Control", (Control_Phase2_SubmitTime)]
c <- d_respondents[ Assignment_Group == "Positive Images", (Positive_Images_Phase2_SubmitTime)]
d <- d_respondents[ Assignment_Group == "Negative Images", (Negative_Images_Phase2_SubmitTime)]
e <- d_respondents[ Assignment_Group == "Self-Reflect", (Self_Reflect_Phase2_SubmitTime)]

(coalesce(c(a,b,c,d,e)))
```

```
##   [1] 102.40 121.35  98.05  92.81 102.98 133.41  93.10 103.79  91.93 172.00
##  [11] 147.04  99.10 163.33 103.08 202.80 240.01 193.16 103.82 106.92 137.90
##  [21]  91.68  99.27 106.51 111.10 240.01 139.19  92.33 116.64  98.86 162.75
##  [31] 241.63 240.18 240.36  98.76  92.97 125.69  92.80 114.69 240.02 240.15
##  [41] 240.01 167.49 240.08  94.56  92.45  93.21 241.70 129.69 127.23  92.66
##  [51] 122.17 202.58 146.63  94.47 240.08  99.18 127.99  92.10 240.01 148.25
##  [61] 112.80 128.77 204.66 127.45 203.76  96.42  91.16  91.73 165.31 240.11
##  [71]  70.97 129.88  96.56 135.18  94.96  79.02  86.90  94.39  71.95 180.02
##  [81]  75.48 180.10  81.90  90.14  72.29 150.56  72.42 180.05 180.01  81.91
##  [91] 122.66 146.02 163.69  90.74  71.23  74.92 253.03  88.58 180.03 163.56
## [101] 149.05 180.01 180.18 180.08  82.84 361.14 167.53 180.12 124.24  72.27
## [111] 164.52 180.05 180.01  77.61 181.37 180.07 180.08  71.35 177.49 254.06
## [121]  72.83  99.72  89.10  90.50 117.62 139.14 180.01 180.01 160.22 181.67
## [131]  75.79 140.88 180.10  74.20 167.91  99.20 109.09  94.00  77.76  46.59
## [141]  58.88  53.25  62.32  53.58  52.85 108.64  65.75  55.09  72.53  77.97
## [151]  63.04  70.48  78.02  49.28  52.16  48.97  61.49  46.58  56.57  51.97
## [161]  50.35  78.00  59.31  51.13  54.30  85.20  46.99  48.02  70.92 120.16
```

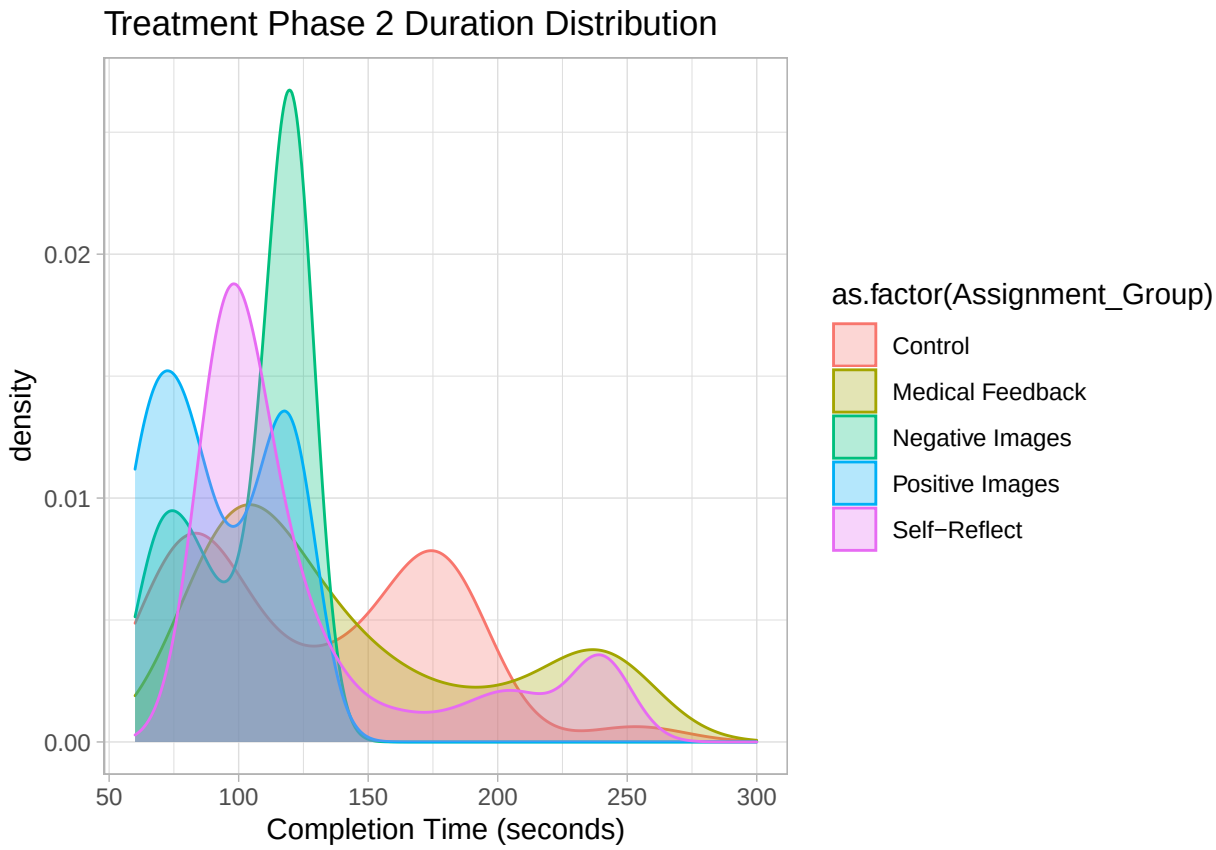
```
## [171]  49.50  53.48 120.02 120.01  86.49 120.11  54.53  49.04  56.31  60.19
## [181] 120.11  63.00 120.11  49.56 121.79  96.14  53.93  83.54  46.75  48.27
## [191] 105.50 120.11  47.23 104.24 120.01 120.19  53.83  46.85  98.95  47.77
## [201]  58.61  50.61  78.12  60.13  48.50  46.20  48.30  80.59  51.74  61.22
## [211]  49.63  49.95  53.22  49.47  48.64 103.54  52.13  74.47 121.74  69.33
## [221]  48.54 120.05  89.56  48.69 120.01 120.12  58.58 105.28  69.97 120.11
## [231] 123.59  46.13 100.51  48.72 120.01 120.07  57.89 120.04  49.71 120.02
## [241]  48.16  47.30 120.11  50.39  51.14 120.01  65.68 120.04  75.32 120.01
## [251] 120.96  79.74 108.32  46.81 121.24 120.12 120.01 121.86  46.05  51.07
## [261] 120.10 120.21  85.59  67.18 120.11  52.77 120.11 120.03  48.72  46.30
## [271] 120.01  47.02  79.61  67.84 108.53  89.02  56.02  48.20  49.30  84.92
## [281]  46.86 100.31  91.06  94.89 110.78  92.71 108.72  93.32 101.28 118.78
## [291]  95.75  91.73  98.11 115.56  92.19 120.11 111.26 126.67 106.35  92.86
## [301] 240.12 240.13 206.95 110.78 198.19 240.01 240.01 108.93 240.01 133.22
## [311] 240.11  91.29  92.55  92.88 106.94  99.23 130.41  95.74 114.67 137.15
## [321] 190.95  91.16  92.03 141.27 480.16 180.02  91.40  98.71 101.83 480.11
## [331] 207.95 124.44  94.00  93.99  99.16  93.13  94.94  97.09 155.42  92.46
## [341]  94.92 104.79 163.94 214.84  91.18  98.49  93.21 113.67 237.66 107.89
```

```
d_noncompliance_2 <- data.table(id=1:350)
d_noncompliance_2[ , Assignment_Group := (c(rep("Medical Feedback", 70), rep("Control", 69), rep("Positi
d_noncompliance_2[ , Treatment_Phase2_SubmitTime := (coalesce(c(a,b,c,d,e)))]

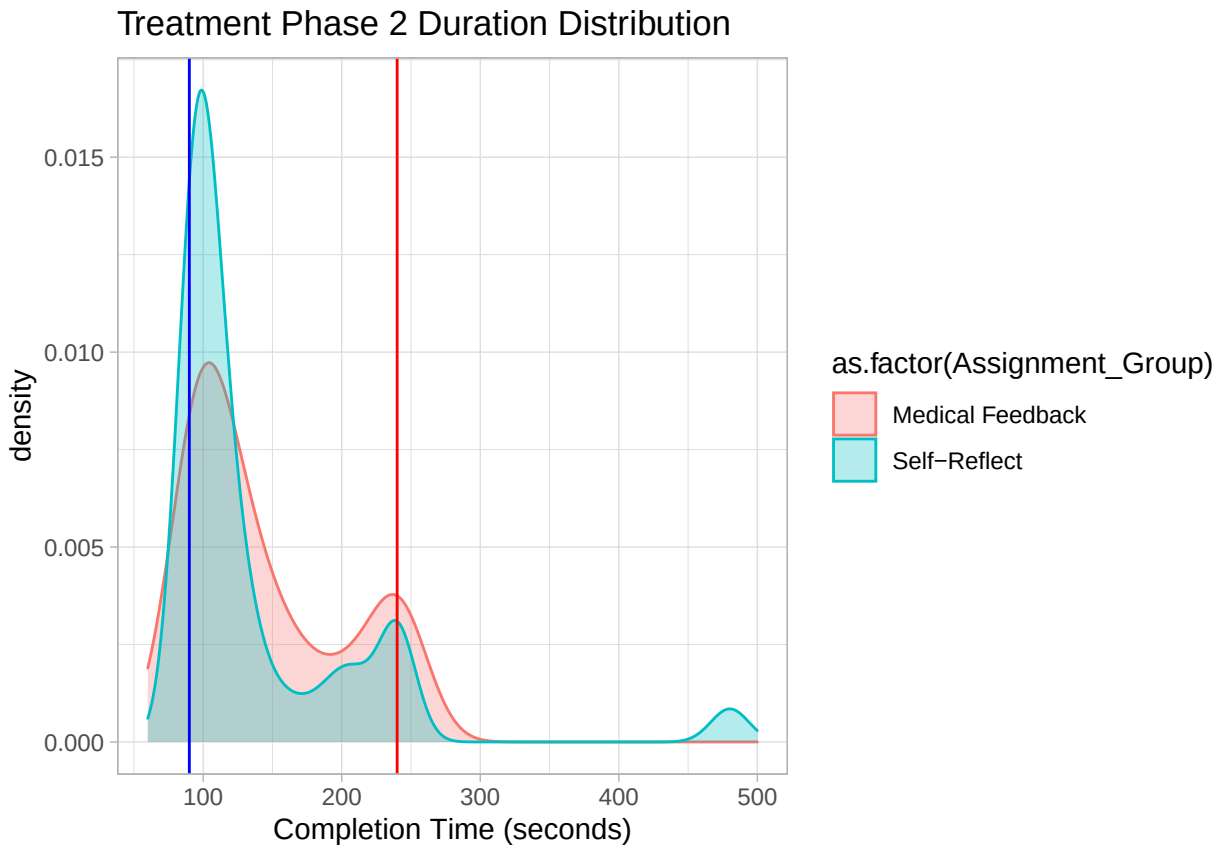

########## plot density distributions of timing for Treatment Phase 2

ggplot(d_noncompliance_2, aes(x=Treatment_Phase2_SubmitTime, colour=as.factor(Assignment_Group), fill =
```

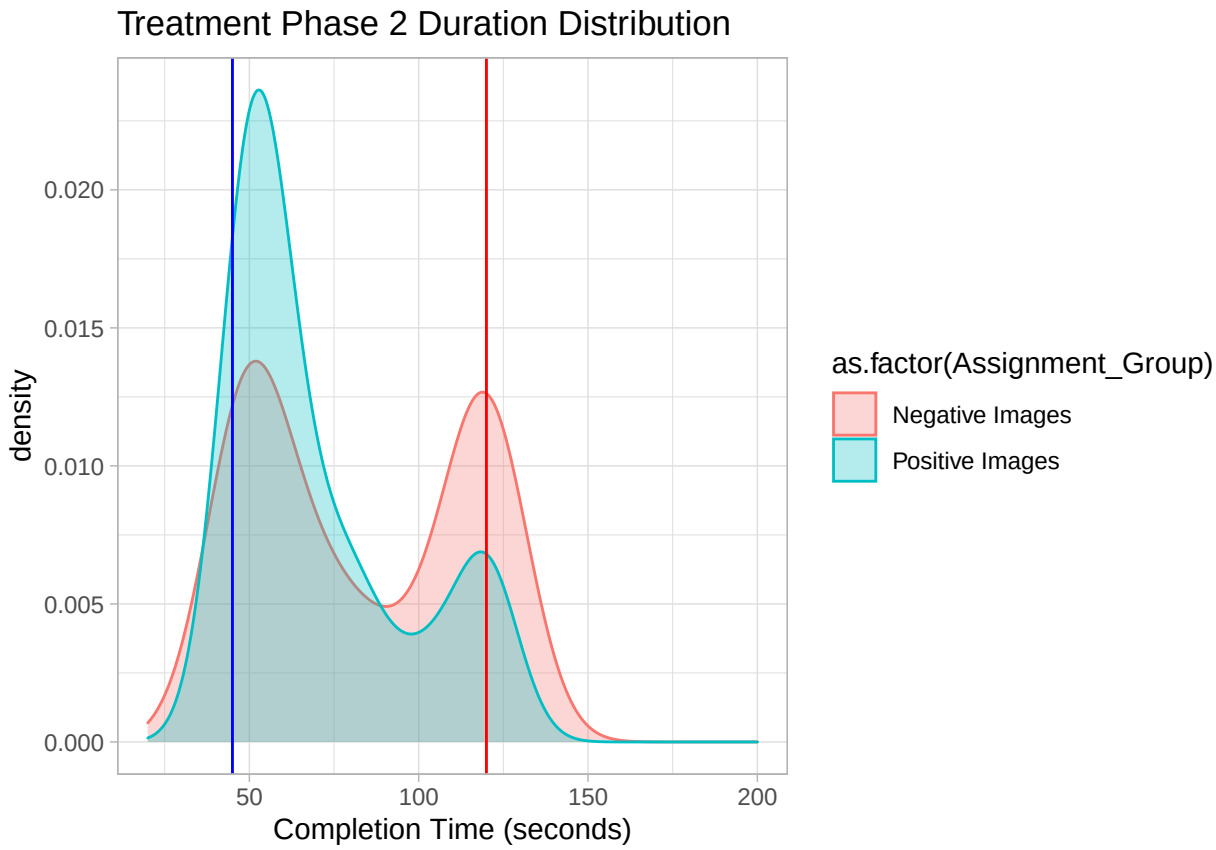
```
## Warning: Removed 68 rows containing non-finite values (stat_density).
```




```
ggplot(d_noncompliance_2[Assignment_Group %in% c("Medical Feedback", "Self-Reflect")], aes(x=Treatment_
```

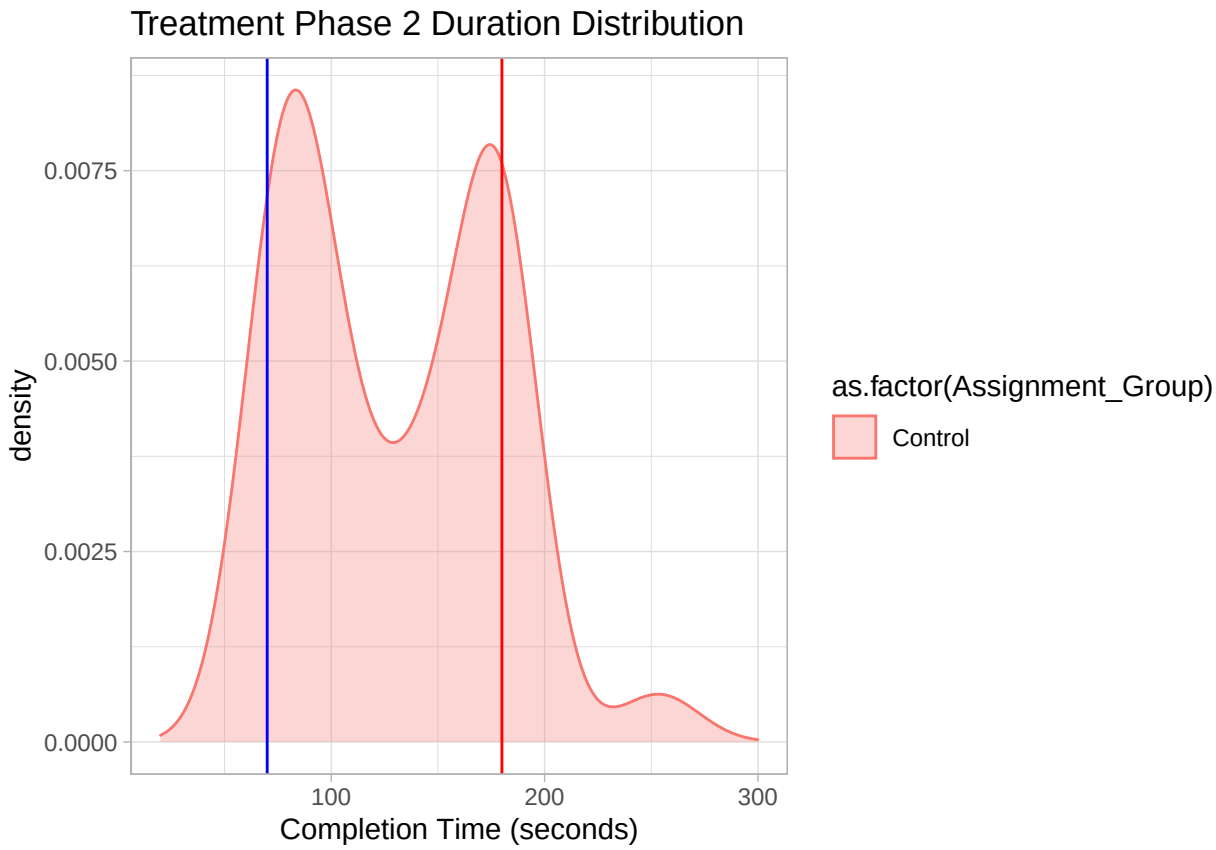



```
ggplot(d_noncompliance_2[Assignment_Group %in% c("Positive Images", "Negative Images")], aes(x=Treatmen
```




```
ggplot(d_noncompliance_2[Assignment_Group %in% c("Control")], aes(x=Treatment_Phase2_SubmitTime, colour=
```

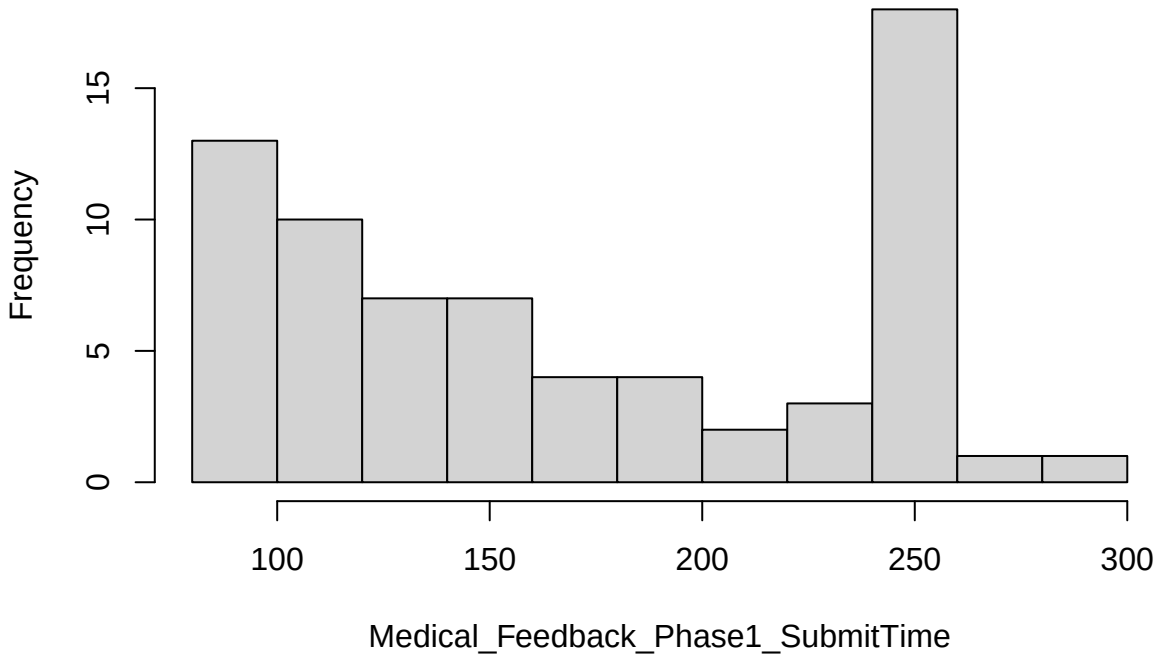
```
## Warning: Removed 1 rows containing non-finite values (stat_density).
```




```
#nrow(d_respondents[ Assignment_Group == "Self-Reflect", ])
```

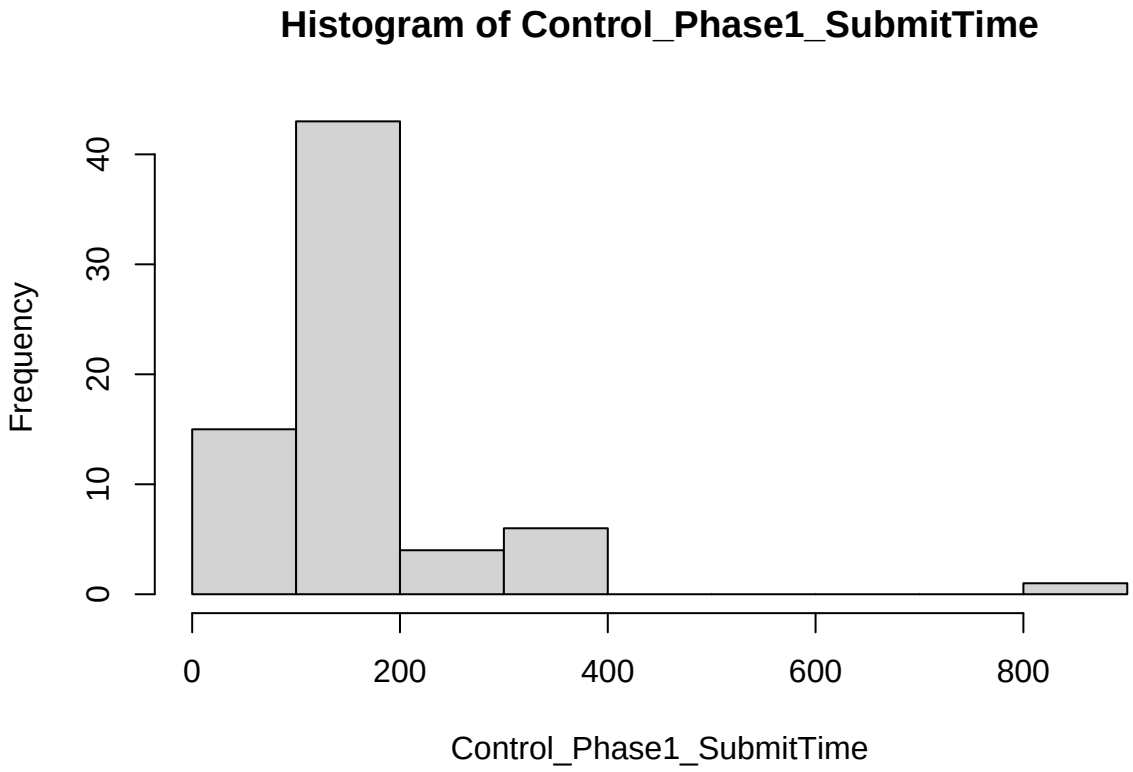
```
#compare against designated miniumum time

d_respondents[ Assignment_Group == "Medical Feedback", hist(Medical_Feedback_Phase1_SubmitTime)]
```



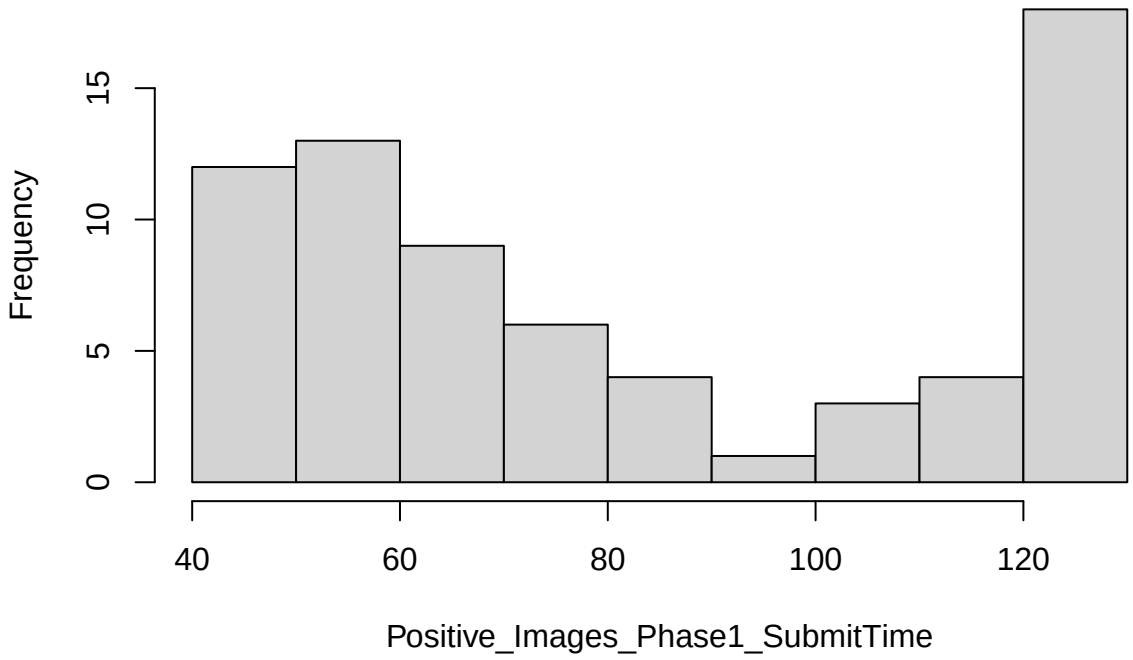

```
## $breaks
##  [1]  80 100 120 140 160 180 200 220 240 260 280 300
##
## $counts
##  [1] 13 10  7  7  4  4  2  3 18  1  1
##
## $density
##  [1] 0.0092857 0.0071429 0.0050000 0.0050000 0.0028571 0.0028571 0.0014286
##  [8] 0.0021429 0.0128571 0.0007143 0.0007143
##
## $mids
##  [1]  90 110 130 150 170 190 210 230 250 270 290
##
## $xname
## [1] "Medical_Feedback_Phase1_SubmitTime"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"
```

```
d_respondents[ Assignment_Group == "Control", hist(Control_Phase1_SubmitTime)]
```



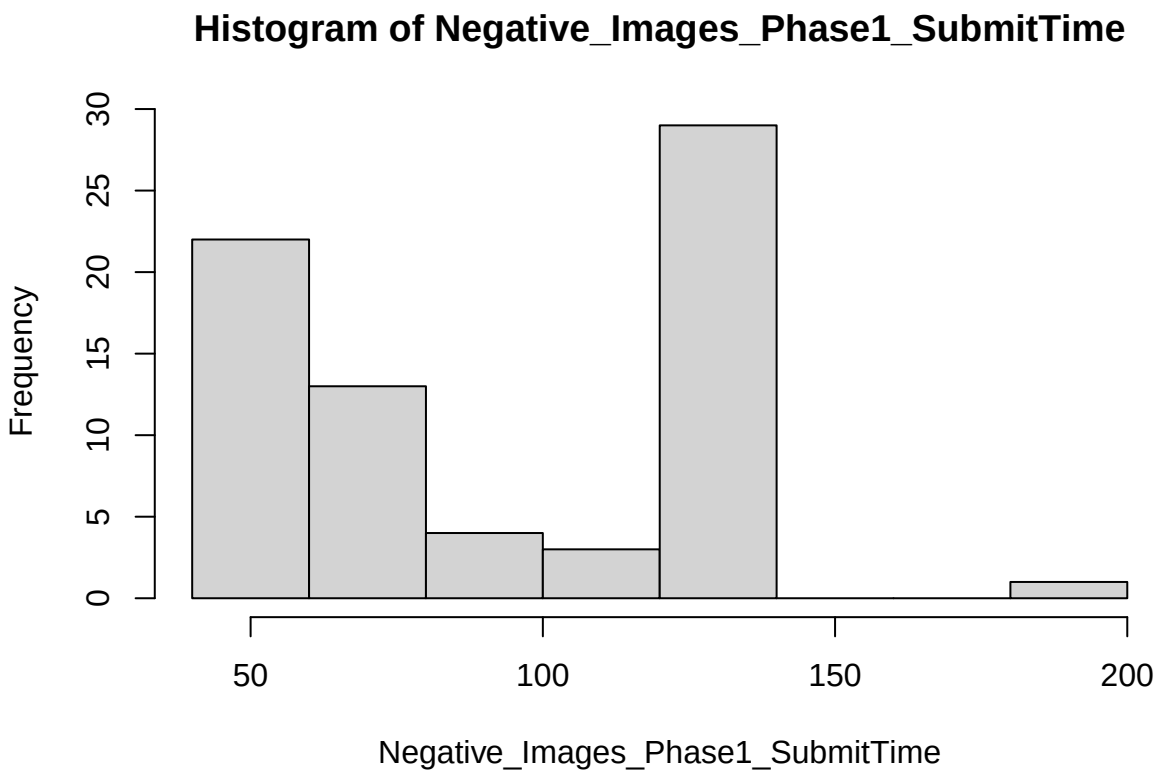

```
## $breaks
##  [1]   0 100 200 300 400 500 600 700 800 900
##
## $counts
## [1] 15 43  4  6  0  0  0  0  1
##
## $density
## [1] 0.0021739 0.0062319 0.0005797 0.0008696 0.0000000 0.0000000 0.0000000
## [8] 0.0000000 0.0001449
##
## $mids
## [1]  50 150 250 350 450 550 650 750 850
##
## $xname
## [1] "Control_Phase1_SubmitTime"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"
```

```
d_respondents[ Assignment_Group == "Positive Images", hist(Positive_Images_Phase1_SubmitTime)]
```



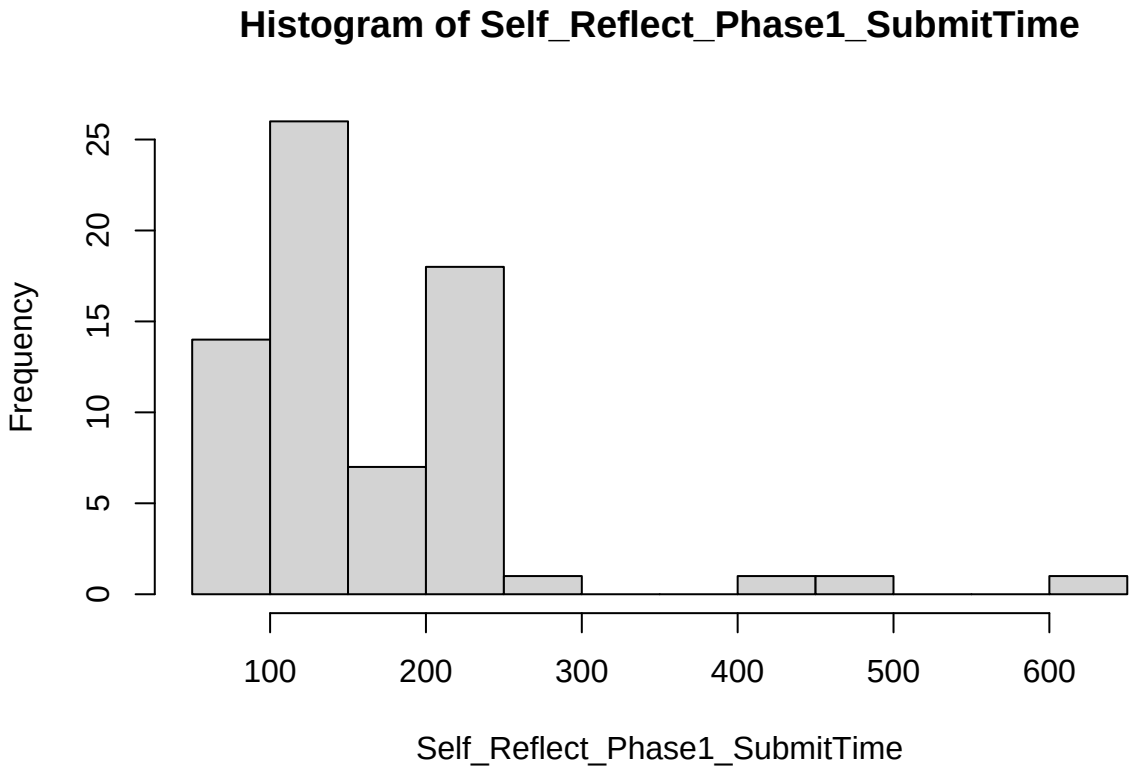

```
## $breaks
##  [1]  40  50  60  70  80  90 100 110 120 130
##
## $counts
## [1] 12 13  9  6  4  1  3  4 18
##
## $density
## [1] 0.017143 0.018571 0.012857 0.008571 0.005714 0.001429 0.004286 0.005714
## [9] 0.025714
##
## $mids
## [1]  45  55  65  75  85  95 105 115 125
##
## $xname
## [1] "Positive_Images_Phase1_SubmitTime"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"
```

```
d_respondents[ Assignment_Group == "Negative Images", hist(Negative_Images_Phase1_SubmitTime)]
```




```
## $breaks
## [1]  40  60  80 100 120 140 160 180 200
##
## $counts
## [1] 22 13  4  3 29  0  0  1
##
## $density
## [1] 0.0152778 0.0090278 0.0027778 0.0020833 0.0201389 0.0000000 0.0000000
## [8] 0.0006944
##
## $mids
## [1]  50  70  90 110 130 150 170 190
##
## $xname
## [1] "Negative_Images_Phase1_SubmitTime"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"
```

```
d_respondents[ Assignment_Group == "Self-Reflect", hist(Self_Reflect_Phase1_SubmitTime)]
```




```
## $breaks
##  [1]  50 100 150 200 250 300 350 400 450 500 550 600 650
##
## $counts
##  [1] 14 26  7 18  1  0  0  1  1  0  0  1
##
## $density
##  [1] 0.0040580 0.0075362 0.0020290 0.0052174 0.0002899 0.0000000 0.0000000
##  [8] 0.0002899 0.0002899 0.0000000 0.0000000 0.0002899
##
## $mids
##  [1]  75 125 175 225 275 325 375 425 475 525 575 625
##
## $xname
## [1] "Self_Reflect_Phase1_SubmitTime"
##
## $equidist
## [1] TRUE
##
## attr(,"class")
## [1] "histogram"
```

```
d_respondents[ Assignment_Group == "Medical Feedback", mean(Medical_Feedback_Phase1_SubmitTime)]
```

```
## [1] 166.9
```

```
d_respondents[ Assignment_Group == "Control", mean(Control_Phase1_SubmitTime)]
```

```
## [1] 172.4
```

```
d_respondents[ Assignment_Group == "Positive Images", mean(Positive_Images_Phase1_SubmitTime)]
```

```
## [1] 81.55
```

```
d_respondents[ Assignment_Group == "Negative Images", mean(Negative_Images_Phase1_SubmitTime)]
```

```
## [1] 87.93
```

```
d_respondents[ Assignment_Group == "Self-Reflect", mean(Self_Reflect_Phase1_SubmitTime)]
```

```
## [1] 170.4
```

```
d_respondents[ Assignment_Group == "Self-Reflect",
               Self_Reflect_Q1_NumWords := sapply(strsplit(Self_Reflect_Q1, " "), length)]

d_respondents[ Assignment_Group == "Self-Reflect",
               Self_Reflect_Q2_NumWords := sapply(strsplit(Self_Reflect_Q2, " "), length)]


d_respondents[ Assignment_Group == "Self-Reflect", Self_Reflect_Q1_NumWords]
```

```
##  [1] 17 24 39 10  1 40  2  8 13 13 38  8  1  1  1  9  1 12 28  9 30 19  1 25  1
## [26]  1  1  1 10  1  6  7 16  1 33  9 22  8  7  7  1  4  9  1  3  2  1 11  1 11
## [51]  1  9  1  7  1  2  6  1  9  1 22 32  5 21 25 30  8 11  1
```

```
d_respondents[ Assignment_Group == "Self-Reflect", Self_Reflect_Q2_NumWords]
```

```
##  [1] 17 25 66  6  1 71  3 19  5 10 39  7  1  1  1 12  1 12 17 16 48 21  1 41  1
## [26]  1  1  1  4  2  8  6 16  1 17  9 14  8  6  6  1  2 11  1  1  2  1  6  1  3
## [51]  1 12  5  6  1  2  7  2  9  1 10 30  4 18 46 26 12  9  1
```

```
# some noncompliant responses for self reflection Q1...assume noncompliant responses have less than 5 w
d_respondents[d_respondents[ , Self_Reflect_Q1_NumWords < 5]]
```

```
##                StartDate             EndDate     Status       IPAddress Progress
##  1: 2020-11-09 20:47:34 2020-11-09 20:55:09 IP Address    173.70.2.215      100
##  2: 2020-11-09 20:50:26 2020-11-09 20:55:21 IP Address   171.61.229.55      100
##  3: 2020-11-09 20:49:21 2020-11-09 20:57:51 IP Address   122.178.23.10      100
##  4: 2020-11-09 20:46:47 2020-11-09 20:57:55 IP Address  209.161.80.251      100
##  5: 2020-11-09 20:53:43 2020-11-09 20:59:59 IP Address   97.100.155.51      100
##  6: 2020-11-09 20:48:01 2020-11-09 21:00:43 IP Address 134.202.123.149      100
##  7: 2020-11-09 20:48:22 2020-11-09 21:02:09 IP Address    157.51.16.58      100
##  8: 2020-11-09 20:50:37 2020-11-09 21:02:24 IP Address 122.183.145.111      100
##  9: 2020-11-09 20:52:32 2020-11-09 21:02:28 IP Address  157.49.241.241      100
## 10: 2020-11-09 20:49:45 2020-11-09 21:02:36 IP Address    157.51.15.22      100
## 11: 2020-11-09 20:47:48 2020-11-09 21:02:58 IP Address 122.174.117.162      100
## 12: 2020-11-09 20:53:27 2020-11-09 21:03:24 IP Address 122.174.126.108      100
## 13: 2020-11-09 20:54:16 2020-11-09 21:05:15 IP Address  216.189.109.73      100
## 14: 2020-11-09 21:03:41 2020-11-09 21:08:36 IP Address   157.46.83.213      100
## 15: 2020-11-09 21:03:28 2020-11-09 21:09:09 IP Address   73.95.138.212      100
## 16: 2020-11-09 20:52:25 2020-11-09 21:10:36 IP Address    196.17.66.62      100
## 17: 2020-11-09 21:00:52 2020-11-09 21:11:02 IP Address   196.17.65.253      100
## 18: 2020-11-09 21:04:57 2020-11-09 21:12:21 IP Address  220.158.140.61      100
## 19: 2020-11-09 21:03:34 2020-11-09 21:14:02 IP Address  122.174.86.228      100
## 20: 2020-11-09 20:59:48 2020-11-09 21:15:41 IP Address   196.17.67.180      100
## 21: 2020-11-09 21:17:50 2020-11-09 21:25:44 IP Address  157.49.242.144      100
## 22: 2020-11-09 21:20:59 2020-11-09 21:29:44 IP Address   196.17.65.206      100
```

```
## 23: 2020-11-09 21:21:58 2020-11-09 21:33:00 IP Address   196.17.66.144      100
## 24: 2020-11-09 21:31:52 2020-11-09 21:36:22 IP Address    196.17.66.29      100
## 25: 2020-11-09 21:53:22 2020-11-09 22:09:39 IP Address    196.17.66.78      100
## 26: 2020-11-12 17:49:45 2020-11-12 17:58:23 IP Address   104.178.7.136      100
## 27: 2020-11-12 20:38:28 2020-11-12 20:58:22 IP Address   196.17.65.211      100
##               StartDate             EndDate     Status       IPAddress Progress
##     Survey_Duration Finished        RecordedDate        ResponseId
##  1:             454     TRUE 2020-11-09 20:55:10 R_2BlLpRzvBE15zAy
##  2:             294     TRUE 2020-11-09 20:55:21 R_2AEiOpWhf0itDTY
##  3:             510     TRUE 2020-11-09 20:57:52 R_27yuhCQ7gunayRP
##  4:             667     TRUE 2020-11-09 20:57:55 R_3EyaU4JIIWd8s8Q
##  5:             376     TRUE 2020-11-09 21:00:00 R_3Hhlk31qt2nhjEO
##  6:             762     TRUE 2020-11-09 21:00:43 R_1o72E7NLkpDM0X0
##  7:             827     TRUE 2020-11-09 21:02:09 R_Xupnp9K0PnORsaZ
##  8:             706     TRUE 2020-11-09 21:02:24 R_3mmcDLjYNpsqybm
##  9:             595     TRUE 2020-11-09 21:02:28 R_29n3GS4E7K8KCaQ
## 10:             771     TRUE 2020-11-09 21:02:37 R_9pDpMKwwwyLW5Lr
## 11:             910     TRUE 2020-11-09 21:02:59 R_1jjfXLHhlVD64IH
## 12:             596     TRUE 2020-11-09 21:03:24 R_32Q3NWNpqeZvY8u
## 13:             659     TRUE 2020-11-09 21:05:16 R_3RyCikzhaYz6fUc
## 14:             295     TRUE 2020-11-09 21:08:37 R_3EXyaAY5J259i6c
## 15:             341     TRUE 2020-11-09 21:09:09 R_1M0rg3VN3yvTOOQ
## 16:            1091     TRUE 2020-11-09 21:10:36 R_1pEgLMb2jtcjPvc
## 17:             609     TRUE 2020-11-09 21:11:02 R_2eQmbi8pdlsnxb2
## 18:             444     TRUE 2020-11-09 21:12:21 R_3fPHWSYW7mUiEEN
## 19:             628     TRUE 2020-11-09 21:14:02 R_10Ab9irP82Hq6dY
## 20:             952     TRUE 2020-11-09 21:15:41 R_3Rsbpf2hi9rGin4
## 21:             474     TRUE 2020-11-09 21:25:44 R_1Ore3oPExwWgHIV
## 22:             524     TRUE 2020-11-09 21:29:44 R_2z8gy3bgT1LEnFp
## 23:             662     TRUE 2020-11-09 21:33:00 R_brcEVAUW2L9fsWZ
## 24:             270     TRUE 2020-11-09 21:36:22 R_3OOOJnZGFZjWvdG
## 25:             977     TRUE 2020-11-09 22:09:40 R_reeaJaRVTD39isp
## 26:             518     TRUE 2020-11-12 17:58:24 R_2E73VCWPzLa4IBs
## 27:            1193     TRUE 2020-11-12 20:58:22 R_3p5w6Uh2BosYB4w
##     Survey_Duration Finished        RecordedDate        ResponseId
##     RecipientLastName RecipientFirstName RecipientEmail ExternalReference
##  1:                NA                  NA             NA                NA
##  2:                NA                  NA             NA                NA
##  3:                NA                  NA             NA                NA
##  4:                NA                  NA             NA                NA
##  5:                NA                  NA             NA                NA
##  6:                NA                  NA             NA                NA
##  7:                NA                  NA             NA                NA
##  8:                NA                  NA             NA                NA
##  9:                NA                  NA             NA                NA
## 10:                NA                  NA             NA                NA
## 11:                NA                  NA             NA                NA
## 12:                NA                  NA             NA                NA
## 13:                NA                  NA             NA                NA
## 14:                NA                  NA             NA                NA
## 15:                NA                  NA             NA                NA
## 16:                NA                  NA             NA                NA
## 17:                NA                  NA             NA                NA
## 18:                NA                  NA             NA                NA
```

```
## 19:                NA                NA             NA                NA
## 20:                NA                NA             NA                NA
## 21:                NA                NA             NA                NA
## 22:                NA                NA             NA                NA
## 23:                NA                NA             NA                NA
## 24:                NA                NA             NA                NA
## 25:                NA                NA             NA                NA
## 26:                NA                NA             NA                NA
## 27:                NA                NA             NA                NA
##     RecipientLastName RecipientFirstName RecipientEmail ExternalReference
##     LocationLatitude LocationLongitude DistributionChannel UserLanguage
##  1:            40.93            -74.12           anonymous           EN
##  2:            13.09             80.28           anonymous           EN
##  3:            13.09             80.28           anonymous           EN
##  4:            37.75            -97.82           anonymous           EN
##  5:            28.33            -81.36           anonymous           EN
##  6:            38.96            -77.34           anonymous           EN
##  7:            13.09             80.28           anonymous           EN
##  8:            13.09             80.28           anonymous           EN
##  9:            13.09             80.28           anonymous           EN
## 10:            13.09             80.28           anonymous           EN
## 11:            13.09             80.28           anonymous           EN
## 12:            13.09             80.28           anonymous           EN
## 13:            37.75            -97.82           anonymous           EN
## 14:            13.09             80.28           anonymous           EN
## 15:            38.85           -104.86           anonymous           EN
## 16:            34.05           -118.24           anonymous           EN
## 17:            34.05           -118.24           anonymous           EN
## 18:            11.12             77.35           anonymous           EN
## 19:            13.09             80.28           anonymous           EN
## 20:            34.05           -118.24           anonymous           EN
## 21:            13.09             80.28           anonymous           EN
## 22:            34.05           -118.24           anonymous           EN
## 23:            34.05           -118.24           anonymous           EN
## 24:            34.05           -118.24           anonymous           EN
## 25:            34.05           -118.24           anonymous           EN
## 26:            29.85            -95.66           anonymous           EN
## 27:            34.05           -118.24           anonymous           EN
##     LocationLatitude LocationLongitude DistributionChannel UserLanguage
##     Amazon_Turk_ID Gender Q82_3_TEXT Age_Range           Education_Level
##  1: A1PUOSCN106A97   Male         NA     45-54         Bachelor's degree
##  2: A2T5YZ59U9SO2Q   Male         NA     35-44         Bachelor's degree
##  3:  AXZD995R6Q0LX   Male         NA     35-44         Bachelor's degree
##  4: A2AC3JVSJELTUP Female         NA     45-54         Bachelor's degree
##  5:  AL9NMDRHC6U4P   Male         NA     45-54         Bachelor's degree
##  6:  APTX33F6PWLXB   Male         NA     25-34         Bachelor's degree
##  7: A3OD4FOSA7EBCL Female         NA     25-34         Bachelor's degree
##  8:  AAKMRXEWL58MW   Male         NA     35-44         Bachelor's degree
##  9: A1S3GKL6QIS58S   Male         NA     25-34         Bachelor's degree
## 10: A3VP14XN3WUUOC   Male         NA     25-34         Bachelor's degree
## 11: A174WAR8BTZPP1   Male         NA     35-44         Bachelor's degree
## 12:  A7SGSBUXRCWHD   Male         NA     35-44         Bachelor's degree
## 13: A2FFYLWXNYR0LE Female         NA     25-34         Bachelor's degree
## 14: A3D4CITR1C9L3W Female         NA     25-34         Bachelor's degree
```

```
## 15: A3JHC4G2MHX9JS   Male         NA     25-34         Bachelor's degree
## 16:  A11700AC2IDNL   Male         NA     45-54         Bachelor's degree
## 17:  ACOB5ZD2HX5EJ Female         NA     45-54         Bachelor's degree
## 18: A382SL9ROIY1P6   Male         NA     25-34         Bachelor's degree
## 19: A22UAN64L0TYJL   Male         NA     25-34         Bachelor's degree
## 20: A2HV0BJP1DIK38   Male         NA     55-64         Bachelor's degree
## 21: A3TDR6MXS6UO5Z Female         NA     25-34         Bachelor's degree
## 22: A2PQ9WLMNBO67S Female         NA     45-54 Master's degree and above
## 23: A3HJ17299K48S3 Female         NA     55-64         Bachelor's degree
## 24:  AQL7N3YPKDWGW   Male         NA     45-54 Master's degree and above
## 25:  ADE7A45FZKZYZ Female         NA     55-64        Associate's degree
## 26: A1O281ENT3FOT1   Male         NA     25-34         Bachelor's degree
## 27: A1A900DAQAP0I   Male         NA     45-54         Bachelor's degree
##     Amazon_Turk_ID Gender Q82_3_TEXT Age_Range           Education_Level
##            Q1        Q2        Q3        Q4        Q5        Q6        Q7
##  1: Pneumonia Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia
##  2:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
##  3:    Normal    Normal    Normal    Normal    Normal    Normal Pneumonia
##  4: Pneumonia Pneumonia    Normal    Normal Pneumonia    Normal    Normal
##  5:    Normal Pneumonia    Normal    Normal Pneumonia    Normal    Normal
##  6: Pneumonia    Normal Pneumonia    Normal    Normal    Normal    Normal
##  7: Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia Pneumonia
##  8:    Normal Pneumonia    Normal    Normal Pneumonia Pneumonia Pneumonia
##  9:    Normal    Normal    Normal    Normal    Normal Pneumonia    Normal
## 10:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 11:    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 12:    Normal    Normal    Normal Pneumonia Pneumonia Pneumonia    Normal
## 13:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 14:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 15: Pneumonia Pneumonia Pneumonia    Normal Pneumonia    Normal    Normal
## 16:    Normal Pneumonia    Normal    Normal    Normal    Normal    Normal
## 17:    Normal Pneumonia Pneumonia    Normal    Normal Pneumonia Pneumonia
## 18: Pneumonia    Normal Pneumonia Pneumonia Pneumonia Pneumonia    Normal
## 19:    Normal    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 20:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 21:    Normal    Normal    Normal Pneumonia    Normal Pneumonia    Normal
## 22:    Normal    Normal    Normal Pneumonia Pneumonia    Normal Pneumonia
## 23: Pneumonia Pneumonia    Normal    Normal Pneumonia    Normal    Normal
## 24:    Normal Pneumonia Pneumonia    Normal    Normal    Normal Pneumonia
## 25:    Normal    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
## 26: Pneumonia Pneumonia Pneumonia    Normal    Normal    Normal Pneumonia
## 27:    Normal    Normal    Normal Pneumonia Pneumonia Pneumonia    Normal
##            Q1        Q2        Q3        Q4        Q5        Q6        Q7
##            Q8        Q9       Q10 Control_Q1 Control_Phase1_First_ClickTime
##  1: Pneumonia Pneumonia Pneumonia                                        NA
##  2:    Normal    Normal Pneumonia                                        NA
##  3:    Normal Pneumonia    Normal                                        NA
##  4: Pneumonia Pneumonia    Normal                                        NA
##  5:    Normal    Normal    Normal                                        NA
##  6:    Normal    Normal    Normal                                        NA
##  7:    Normal Pneumonia    Normal                                        NA
##  8:    Normal Pneumonia    Normal                                        NA
##  9:    Normal    Normal    Normal                                        NA
## 10: Pneumonia    Normal Pneumonia                                        NA
```

```
## 11:    Normal Pneumonia Pneumonia                                        NA
## 12: Pneumonia    Normal Pneumonia                                        NA
## 13: Pneumonia Pneumonia Pneumonia                                        NA
## 14:    Normal    Normal    Normal                                        NA
## 15:    Normal Pneumonia Pneumonia                                        NA
## 16: Pneumonia Pneumonia    Normal                                        NA
## 17:    Normal Pneumonia Pneumonia                                        NA
## 18: Pneumonia Pneumonia Pneumonia                                        NA
## 19:    Normal    Normal    Normal                                        NA
## 20: Pneumonia    Normal    Normal                                        NA
## 21: Pneumonia    Normal Pneumonia                                        NA
## 22:    Normal Pneumonia Pneumonia                                        NA
## 23:    Normal Pneumonia Pneumonia                                        NA
## 24: Pneumonia Pneumonia Pneumonia                                        NA
## 25:    Normal Pneumonia    Normal                                        NA
## 26:    Normal    Normal    Normal                                        NA
## 27:    Normal    Normal    Normal                                        NA
##           Q8        Q9       Q10 Control_Q1 Control_Phase1_First_ClickTime
##     Control_Phase1_Last_ClickTime Control_Phase1_SubmitTime
##  1:                            NA                        NA
##  2:                            NA                        NA
##  3:                            NA                        NA
##  4:                            NA                        NA
##  5:                            NA                        NA
##  6:                            NA                        NA
##  7:                            NA                        NA
##  8:                            NA                        NA
##  9:                            NA                        NA
## 10:                            NA                        NA
## 11:                            NA                        NA
## 12:                            NA                        NA
## 13:                            NA                        NA
## 14:                            NA                        NA
## 15:                            NA                        NA
## 16:                            NA                        NA
## 17:                            NA                        NA
## 18:                            NA                        NA
## 19:                            NA                        NA
## 20:                            NA                        NA
## 21:                            NA                        NA
## 22:                            NA                        NA
## 23:                            NA                        NA
## 24:                            NA                        NA
## 25:                            NA                        NA
## 26:                            NA                        NA
## 27:                            NA                        NA
##     Control_Phase1_Last_ClickTime Control_Phase1_SubmitTime
##     Control_Phase1_NumClicks       Q11       Q12       Q13       Q14       Q15
##  1:                       NA    Normal    Normal    Normal    Normal    Normal
##  2:                       NA    Normal Pneumonia    Normal    Normal Pneumonia
##  3:                       NA    Normal Pneumonia Pnuemonia    Normal    Normal
##  4:                       NA Pneumonia Pneumonia Pnuemonia Pneumonia Pneumonia
##  5:                       NA    Normal Pneumonia    Normal    Normal    Normal
##  6:                       NA    Normal    Normal    Normal    Normal    Normal
```

```
##  7:                       NA Pneumonia Pneumonia Pnuemonia Pneumonia    Normal
##  8:                       NA    Normal    Normal    Normal Pneumonia Pneumonia
##  9:                       NA    Normal    Normal    Normal    Normal Pneumonia
## 10:                       NA    Normal Pneumonia    Normal    Normal Pneumonia
## 11:                       NA    Normal Pneumonia    Normal    Normal Pneumonia
## 12:                       NA    Normal    Normal Pnuemonia Pneumonia    Normal
## 13:                       NA Pneumonia    Normal Pnuemonia Pneumonia Pneumonia
## 14:                       NA Pneumonia    Normal    Normal Pneumonia    Normal
## 15:                       NA Pneumonia    Normal Pnuemonia Pneumonia    Normal
## 16:                       NA    Normal    Normal Pnuemonia    Normal Pneumonia
## 17:                       NA Pneumonia Pneumonia Pnuemonia Pneumonia Pneumonia
## 18:                       NA    Normal    Normal Pnuemonia Pneumonia    Normal
## 19:                       NA    Normal Pneumonia Pnuemonia    Normal    Normal
## 20:                       NA    Normal    Normal Pnuemonia    Normal    Normal
## 21:                       NA    Normal Pneumonia    Normal Pneumonia    Normal
## 22:                       NA Pneumonia    Normal Pnuemonia    Normal Pneumonia
## 23:                       NA    Normal    Normal    Normal Pneumonia    Normal
## 24:                       NA Pneumonia    Normal    Normal Pneumonia    Normal
## 25:                       NA Pneumonia Pneumonia Pnuemonia Pneumonia Pneumonia
## 26:                       NA Pneumonia    Normal    Normal Pneumonia    Normal
## 27:                       NA    Normal    Normal    Normal Pneumonia    Normal
##     Control_Phase1_NumClicks       Q11       Q12       Q13       Q14       Q15
##           Q16       Q17       Q18       Q19       Q20 Control_Q2
##  1:    Normal Pneumonia    Normal Pneumonia Pneumonia
##  2:    Normal Pneumonia    Normal    Normal    Normal
##  3: Pneumonia Pneumonia    Normal Pneumonia    Normal
##  4: Pneumonia Pneumonia Pneumonia    Normal Pneumonia
##  5:    Normal    Normal    Normal    Normal    Normal
##  6: Pneumonia    Normal    Normal    Normal Pneumonia
##  7:    Normal Pneumonia Pneumonia Pneumonia Pneumonia
##  8:    Normal Pneumonia    Normal    Normal    Normal
##  9:    Normal    Normal    Normal    Normal    Normal
## 10:    Normal Pneumonia    Normal Pneumonia    Normal
## 11:    Normal    Normal Pneumonia Pneumonia    Normal
## 12: Pneumonia    Normal    Normal Pneumonia    Normal
## 13: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 14:    Normal    Normal Pneumonia    Normal Pneumonia
## 15:    Normal    Normal Pneumonia    Normal Pneumonia
## 16:    Normal    Normal    Normal    Normal    Normal
## 17:    Normal Pneumonia Pneumonia Pneumonia Pneumonia
## 18:    Normal Pneumonia    Normal Pneumonia Pneumonia
## 19:    Normal    Normal Pneumonia    Normal    Normal
## 20: Pneumonia    Normal    Normal    Normal    Normal
## 21: Pneumonia    Normal Pneumonia    Normal Pneumonia
## 22:    Normal Pneumonia    Normal Pneumonia    Normal
## 23:    Normal    Normal Pneumonia    Normal    Normal
## 24:    Normal    Normal    Normal    Normal Pneumonia
## 25: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 26:    Normal Pneumonia Pneumonia Pneumonia Pneumonia
## 27:    Normal Pneumonia Pneumonia    Normal    Normal
##           Q16       Q17       Q18       Q19       Q20 Control_Q2
##     Control_Phase2_First_ClickTime Control_Phase2_Last_ClickTime
##  1:                             NA                            NA
##  2:                             NA                            NA
```

```
##  3:                           NA                           NA
##  4:                           NA                           NA
##  5:                           NA                           NA
##  6:                           NA                           NA
##  7:                           NA                           NA
##  8:                           NA                           NA
##  9:                           NA                           NA
## 10:                           NA                           NA
## 11:                           NA                           NA
## 12:                           NA                           NA
## 13:                           NA                           NA
## 14:                           NA                           NA
## 15:                           NA                           NA
## 16:                           NA                           NA
## 17:                           NA                           NA
## 18:                           NA                           NA
## 19:                           NA                           NA
## 20:                           NA                           NA
## 21:                           NA                           NA
## 22:                           NA                           NA
## 23:                           NA                           NA
## 24:                           NA                           NA
## 25:                           NA                           NA
## 26:                           NA                           NA
## 27:                           NA                           NA
##     Control_Phase2_First_ClickTime Control_Phase2_Last_ClickTime
##     Control_Phase2_SubmitTime Control_Phase2_NumClicks       Q21       Q22
##  1:                        NA                       NA    Normal    Normal
##  2:                        NA                       NA    Normal    Normal
##  3:                        NA                       NA    Normal    Normal
##  4:                        NA                       NA    Normal    Normal
##  5:                        NA                       NA    Normal    Normal
##  6:                        NA                       NA    Normal Pneumonia
##  7:                        NA                       NA Pneumonia    Normal
##  8:                        NA                       NA    Normal Pneumonia
##  9:                        NA                       NA    Normal    Normal
## 10:                        NA                       NA Pneumonia    Normal
## 11:                        NA                       NA    Normal Pneumonia
## 12:                        NA                       NA    Normal Pneumonia
## 13:                        NA                       NA Pneumonia Pneumonia
## 14:                        NA                       NA    Normal Pneumonia
## 15:                        NA                       NA    Normal    Normal
## 16:                        NA                       NA    Normal    Normal
## 17:                        NA                       NA Pneumonia Pneumonia
## 18:                        NA                       NA    Normal    Normal
## 19:                        NA                       NA    Normal    Normal
## 20:                        NA                       NA    Normal    Normal
## 21:                        NA                       NA    Normal Pneumonia
## 22:                        NA                       NA Pneumonia Pneumonia
## 23:                        NA                       NA    Normal    Normal
## 24:                        NA                       NA Pneumonia    Normal
## 25:                        NA                       NA    Normal Pneumonia
## 26:                        NA                       NA Pneumonia Pneumonia
## 27:                        NA                       NA    Normal    Normal
```

```
##     Control_Phase2_SubmitTime Control_Phase2_NumClicks       Q21       Q22
##           Q23       Q24       Q25       Q26       Q27       Q28       Q29
##  1: Pneumonia    Normal Pneumonia Pneumonia    Normal    Normal    Normal
##  2:    Normal Pneumonia    Normal    Normal    Normal    Normal Pneumonia
##  3:    Normal    Normal Pneumonia    Normal    Normal Pneumonia    Normal
##  4: Pneumonia Pneumonia    Normal    Normal    Normal    Normal    Normal
##  5:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
##  6:    Normal    Normal    Normal Pneumonia    Normal    Normal    Normal
##  7: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
##  8:    Normal Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
##  9: Pneumonia    Normal    Normal    Normal    Normal    Normal Pneumonia
## 10: Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
## 11:    Normal Pneumonia    Normal Pneumonia Pneumonia Pneumonia    Normal
## 12:    Normal    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
## 13:    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 14:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 15: Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia    Normal
## 16:    Normal Pneumonia    Normal    Normal    Normal    Normal    Normal
## 17: Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 18: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia    Normal
## 19:    Normal    Normal Pneumonia    Normal    Normal    Normal    Normal
## 20:    Normal    Normal    Normal    Normal    Normal    Normal Pneumonia
## 21:    Normal Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
## 22:    Normal Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
## 23:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 24: Pneumonia Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 25: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 26: Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia Pneumonia
## 27:    Normal    Normal    Normal Pneumonia    Normal    Normal Pneumonia
##           Q23       Q24       Q25       Q26       Q27       Q28       Q29
##           Q30
##  1:    Normal
##  2:    Normal
##  3:    Normal
##  4:    Normal
##  5:    Normal
##  6:    Normal
##  7: Pneumonia
##  8: Pneumonia
##  9:    Normal
## 10:    Normal
## 11:    Normal
## 12:    Normal
## 13:    Normal
## 14: Pneumonia
## 15:    Normal
## 16:    Normal
## 17:    Normal
## 18:    Normal
## 19:    Normal
## 20:    Normal
## 21:    Normal
## 22: Pneumonia
## 23: Pneumonia
```

```
## 24: Pneumonia
## 25: Pneumonia
## 26:    Normal
## 27:    Normal
##          Q30
##                                                                                                Q36
##  1:     Image 1Correct diagnosis: Normal\nYou chose: ${q://QID1/ChoiceGroup/SelectedChoices}\n
##  2:  Image 3Correct diagnosis: Pneumonia\nYou chose: ${q://QID6/ChoiceGroup/SelectedChoices}\n
##  3:    Image 5Correct diagnosis: Normal\nYou chose: ${q://QID16/ChoiceGroup/SelectedChoices}\n
##  4:
##  5:      Image 10 Correct diagnosis: NormalYou chose: ${q://QID21/ChoiceGroup/SelectedChoices}
##  6:
##  7:      Image 10 Correct diagnosis: NormalYou chose: ${q://QID21/ChoiceGroup/SelectedChoices}
##  8:  Image 7Correct diagnosis: Pneumonia\nYou chose ${q://QID18/ChoiceGroup/SelectedChoices}\n
##  9:      Image 4Correct diagnosis: PneumoniaYou chose: ${q://QID7/ChoiceGroup/SelectedChoices}
## 10:  Image 3Correct diagnosis: Pneumonia\nYou chose: ${q://QID6/ChoiceGroup/SelectedChoices}\n
## 11:      Image 10 Correct diagnosis: NormalYou chose: ${q://QID21/ChoiceGroup/SelectedChoices}
## 12:  Image 3Correct diagnosis: Pneumonia\nYou chose: ${q://QID6/ChoiceGroup/SelectedChoices}\n
## 13:     Image 1Correct diagnosis: Normal\nYou chose: ${q://QID1/ChoiceGroup/SelectedChoices}\n
## 14:     Image 2Correct diagnosis: Normal\nYou chose: ${q://QID5/ChoiceGroup/SelectedChoices}\n
## 15:  Image 7Correct diagnosis: Pneumonia\nYou chose ${q://QID18/ChoiceGroup/SelectedChoices}\n
## 16:  Image 7Correct diagnosis: Pneumonia\nYou chose ${q://QID18/ChoiceGroup/SelectedChoices}\n
## 17:
## 18: Image 9Correct diagnosis: Pneumonia\nYou chose: ${q://QID20/ChoiceGroup/SelectedChoices}\n
## 19:  Image 7Correct diagnosis: Pneumonia\nYou chose ${q://QID18/ChoiceGroup/SelectedChoices}\n
## 20: Image 9Correct diagnosis: Pneumonia\nYou chose: ${q://QID20/ChoiceGroup/SelectedChoices}\n
## 21:  Image 7Correct diagnosis: Pneumonia\nYou chose ${q://QID18/ChoiceGroup/SelectedChoices}\n
## 22:
## 23:  Image 6Correct diagnosis: Pneumonia\nYou chose ${q://QID17/ChoiceGroup/SelectedChoices}\n
## 24:  Image 3Correct diagnosis: Pneumonia\nYou chose: ${q://QID6/ChoiceGroup/SelectedChoices}\n
## 25:     Image 1Correct diagnosis: Normal\nYou chose: ${q://QID1/ChoiceGroup/SelectedChoices}\n
## 26:
## 27:     Image 2Correct diagnosis: Normal\nYou chose: ${q://QID5/ChoiceGroup/SelectedChoices}\n
##                                                                                                Q36
##     Self_Reflect_Q1 Self_Reflect_Phase1_First_ClickTime
##  1:             yes                              12.121
##  2:      NICE IMAGE                              62.613
##  3:          HEALTH                              75.900
##  4:            fine                               8.625
##  5:          HEALTH                              91.932
##  6:             yes                              22.027
##  7:         nothing                              18.267
##  8:          HEALTH                               6.790
##  9:         NOTHING                               3.975
## 10:          noting                               7.968
## 11:          HEALTH                              51.525
## 12:          health                              14.103
## 13:               7                               5.657
## 14:         nothing                               1.672
## 15: I THINK IT BEST                               4.296
## 16:            nice                               1.500
## 17:      I FEEL GOOD                            113.813
## 18: slightly better                              30.816
## 19:             yes                               6.452
```

```
## 20:          better                              2.313
## 21:         NATHING                              2.153
## 22:              i                             103.379
## 23:              2                              10.970
## 24:          I KNOW                              4.770
## 25:            nice                              1.441
## 26:            None                             62.439
## 27:               2                             80.094
##     Self_Reflect_Q1 Self_Reflect_Phase1_First_ClickTime
##     Self_Reflect_Phase1_Last_ClickTime Self_Reflect_Phase1_SubmitTime
##  1:                             32.921                          94.77
##  2:                            115.950                         123.31
##  3:                            261.440                         275.03
##  4:                            114.523                         118.52
##  5:                             99.299                         103.34
##  6:                             74.603                         141.42
##  7:                             98.258                         240.02
##  8:                            235.852                         240.02
##  9:                             76.641                         138.92
## 10:                            174.694                         411.72
## 11:                            471.415                         480.02
## 12:                             22.485                         240.01
## 13:                            174.503                         199.02
## 14:                              6.711                         117.71
## 15:                             87.095                          91.82
## 16:                             10.201                         240.02
## 17:                            215.650                         240.18
## 18:                             54.408                         104.10
## 19:                             76.162                         241.97
## 20:                             32.168                         240.02
## 21:                             10.005                          96.10
## 22:                            103.379                         241.82
## 23:                             90.351                          94.42
## 24:                             13.898                         120.60
## 25:                              4.829                         240.04
## 26:                             69.780                         101.46
## 27:                             97.726                         114.13
##     Self_Reflect_Phase1_Last_ClickTime Self_Reflect_Phase1_SubmitTime
##     Self_Reflect_Phase1_NumClicks
##  1:                              3
##  2:                              5
##  3:                              9
##  4:                              8
##  5:                              5
##  6:                             10
##  7:                             23
##  8:                              2
##  9:                              8
## 10:                             10
## 11:                              9
## 12:                              3
## 13:                             16
## 14:                              2
## 15:                             11
```

```
## 16:                          4
## 17:                          9
## 18:                          3
## 19:                         20
## 20:                         10
## 21:                          5
## 22:                          1
## 23:                          9
## 24:                          2
## 25:                          2
## 26:                          2
## 27:                          5
##     Self_Reflect_Phase1_NumClicks
##                                                                                                   Q41
##  1:    Image 15Correct diagnosis: Normal\nYou chose: ${q://QID22/ChoiceGroup/SelectedChoices}\n
##  2:  Image 11Correct diagnosis: Pneumonia\nYou chose: ${q://QID8/ChoiceGroup/SelectedChoices}\n
##  3:       Image 12Correct diagnosis: Normal\nYou chose: ${q://QID9/ChoiceGroup/SelectedChoices}
##  4:     Image 13Correct diagnosis: PneumoniaYou chose: ${q://QID10/ChoiceGroup/SelectedChoices}
##  5:    Image 15Correct diagnosis: Normal\nYou chose: ${q://QID22/ChoiceGroup/SelectedChoices}\n
##  6:
##  7:
##  8:  Image 11Correct diagnosis: Pneumonia\nYou chose: ${q://QID8/ChoiceGroup/SelectedChoices}\n
##  9:     Image 13Correct diagnosis: PneumoniaYou chose: ${q://QID10/ChoiceGroup/SelectedChoices}
## 10:       Image 12Correct diagnosis: Normal\nYou chose: ${q://QID9/ChoiceGroup/SelectedChoices}
## 11:     Image 13Correct diagnosis: PneumoniaYou chose: ${q://QID10/ChoiceGroup/SelectedChoices}
## 12:       Image 12Correct diagnosis: Normal\nYou chose: ${q://QID9/ChoiceGroup/SelectedChoices}
## 13:  Image 11Correct diagnosis: Pneumonia\nYou chose: ${q://QID8/ChoiceGroup/SelectedChoices}\n
## 14:    Image 20Correct diagnosis: Normal\nYou chose: ${q://QID27/ChoiceGroup/SelectedChoices}\n
## 15:
## 16:    Image 20Correct diagnosis: Normal\nYou chose: ${q://QID27/ChoiceGroup/SelectedChoices}\n
## 17:
## 18:
## 19:  Image 11Correct diagnosis: Pneumonia\nYou chose: ${q://QID8/ChoiceGroup/SelectedChoices}\n
## 20:     Image 19Correct diagnosis: PneumoniaYou chose: ${q://QID26/ChoiceGroup/SelectedChoices}
## 21:     Image 19Correct diagnosis: PneumoniaYou chose: ${q://QID26/ChoiceGroup/SelectedChoices}
## 22:
## 23: Image 17Correct diagnosis: Pneumonia\nYou chose: ${q://QID24/ChoiceGroup/SelectedChoices}\n
## 24:       Image 12Correct diagnosis: Normal\nYou chose: ${q://QID9/ChoiceGroup/SelectedChoices}
## 25:  Image 11Correct diagnosis: Pneumonia\nYou chose: ${q://QID8/ChoiceGroup/SelectedChoices}\n
## 26:
## 27:       Image 12Correct diagnosis: Normal\nYou chose: ${q://QID9/ChoiceGroup/SelectedChoices}
##                                                                                                   Q41
##             Self_Reflect_Q2 Self_Reflect_Phase2_First_ClickTime
##  1:                     yes                              19.539
##  2:           6 IMAGE BETTER                              4.373
##  3:                  HEALTH                               2.472
##  4:                    fine                               7.840
##  5:                  HEALTH                               1.762
##  6:                     yes                              20.420
##  7:                 nothing                               7.524
##  8:                  HEALTH                              11.369
##  9:                 NOTHING                               5.702
## 10:                 nothing                               1.548
## 11:                  HEALTH                               4.197
```

```
## 12:            normal health                                4.958
## 13:                        6                                4.305
## 14:                  nathing                                2.514
## 15:           PERFORMED BEST                               21.737
## 16:                     nice                                1.774
## 17:                     GOOD                              157.755
## 18:             much better                               46.349
## 19:                      yes                                2.047
## 20:                     nice                                5.793
## 21:                   NATHING                               1.185
## 22: I KNOW THE BETTER ANSWER                                9.010
## 23:                       17                                3.462
## 24:                   I KNOW                                5.786
## 25:          slightly better                               15.647
## 26:                     none                               12.865
## 27:                       12                               20.881
##             Self_Reflect_Q2 Self_Reflect_Phase2_First_ClickTime
##     Self_Reflect_Phase2_Last_ClickTime Self_Reflect_Phase2_SubmitTime
##  1:                             31.800                          92.71
##  2:                             39.793                          93.32
##  3:                              8.169                         115.56
##  4:                             81.033                          92.19
##  5:                              7.569                         120.11
##  6:                             20.420                         126.67
##  7:                              7.524                         110.78
##  8:                             89.551                         240.01
##  9:                             12.823                         240.01
## 10:                              5.807                         108.93
## 11:                              9.066                         240.01
## 12:                             25.268                         240.11
## 13:                             33.145                         106.94
## 14:                              8.787                          91.16
## 15:                             21.737                          92.03
## 16:                            346.405                         480.16
## 17:                            172.467                         180.02
## 18:                             79.827                          91.40
## 19:                              6.046                          98.71
## 20:                            249.101                         480.11
## 21:                              7.346                         124.44
## 22:                              9.010                          93.99
## 23:                             29.088                          93.13
## 24:                             11.300                          94.94
## 25:                             18.373                         155.42
## 26:                             80.123                          94.92
## 27:                             33.864                         107.89
##     Self_Reflect_Phase2_Last_ClickTime Self_Reflect_Phase2_SubmitTime
##     Self_Reflect_Phase2_NumClicks Q38 Medical_Feedback_Phase1_First_ClickTime
##  1:                             2                                         NA
##  2:                             3                                         NA
##  3:                             2                                         NA
##  4:                             9                                         NA
##  5:                             3                                         NA
##  6:                             1                                         NA
##  7:                             1                                         NA
```

```
##  8:                              6                                      NA
##  9:                              3                                      NA
## 10:                              2                                      NA
## 11:                              2                                      NA
## 12:                              3                                      NA
## 13:                              4                                      NA
## 14:                              5                                      NA
## 15:                              1                                      NA
## 16:                             15                                      NA
## 17:                              3                                      NA
## 18:                              2                                      NA
## 19:                              2                                      NA
## 20:                              8                                      NA
## 21:                              6                                      NA
## 22:                              1                                      NA
## 23:                              5                                      NA
## 24:                              2                                      NA
## 25:                              2                                      NA
## 26:                             15                                      NA
## 27:                              6                                      NA
##     Self_Reflect_Phase2_NumClicks Q38 Medical_Feedback_Phase1_First_ClickTime
##     Medical_Feedback_Phase1_Last_ClickTime Medical_Feedback_Phase1_SubmitTime
##  1:                                     NA                                 NA
##  2:                                     NA                                 NA
##  3:                                     NA                                 NA
##  4:                                     NA                                 NA
##  5:                                     NA                                 NA
##  6:                                     NA                                 NA
##  7:                                     NA                                 NA
##  8:                                     NA                                 NA
##  9:                                     NA                                 NA
## 10:                                     NA                                 NA
## 11:                                     NA                                 NA
## 12:                                     NA                                 NA
## 13:                                     NA                                 NA
## 14:                                     NA                                 NA
## 15:                                     NA                                 NA
## 16:                                     NA                                 NA
## 17:                                     NA                                 NA
## 18:                                     NA                                 NA
## 19:                                     NA                                 NA
## 20:                                     NA                                 NA
## 21:                                     NA                                 NA
## 22:                                     NA                                 NA
## 23:                                     NA                                 NA
## 24:                                     NA                                 NA
## 25:                                     NA                                 NA
## 26:                                     NA                                 NA
## 27:                                     NA                                 NA
##     Medical_Feedback_Phase1_Last_ClickTime Medical_Feedback_Phase1_SubmitTime
##     Medical_Feedback_Phase1_NumClicks Q43
##  1:                                  NA
##  2:                                  NA
##  3:                                  NA
```

```
##  4:                                NA
##  5:                                NA
##  6:                                NA
##  7:                                NA
##  8:                                NA
##  9:                                NA
## 10:                                NA
## 11:                                NA
## 12:                                NA
## 13:                                NA
## 14:                                NA
## 15:                                NA
## 16:                                NA
## 17:                                NA
## 18:                                NA
## 19:                                NA
## 20:                                NA
## 21:                                NA
## 22:                                NA
## 23:                                NA
## 24:                                NA
## 25:                                NA
## 26:                                NA
## 27:                                NA
##     Medical_Feedback_Phase1_NumClicks Q43
##     Medical_Feedback_Phase2_First_ClickTime
##  1:                                      NA
##  2:                                      NA
##  3:                                      NA
##  4:                                      NA
##  5:                                      NA
##  6:                                      NA
##  7:                                      NA
##  8:                                      NA
##  9:                                      NA
## 10:                                      NA
## 11:                                      NA
## 12:                                      NA
## 13:                                      NA
## 14:                                      NA
## 15:                                      NA
## 16:                                      NA
## 17:                                      NA
## 18:                                      NA
## 19:                                      NA
## 20:                                      NA
## 21:                                      NA
## 22:                                      NA
## 23:                                      NA
## 24:                                      NA
## 25:                                      NA
## 26:                                      NA
## 27:                                      NA
##     Medical_Feedback_Phase2_First_ClickTime
```

```
##     Medical_Feedback_Phase2_Last_ClickTime Medical_Feedback_Phase2_SubmitTime
##  1:                                     NA                                  NA
##  2:                                     NA                                  NA
##  3:                                     NA                                  NA
##  4:                                     NA                                  NA
##  5:                                     NA                                  NA
##  6:                                     NA                                  NA
##  7:                                     NA                                  NA
##  8:                                     NA                                  NA
##  9:                                     NA                                  NA
## 10:                                     NA                                  NA
## 11:                                     NA                                  NA
## 12:                                     NA                                  NA
## 13:                                     NA                                  NA
## 14:                                     NA                                  NA
## 15:                                     NA                                  NA
## 16:                                     NA                                  NA
## 17:                                     NA                                  NA
## 18:                                     NA                                  NA
## 19:                                     NA                                  NA
## 20:                                     NA                                  NA
## 21:                                     NA                                  NA
## 22:                                     NA                                  NA
## 23:                                     NA                                  NA
## 24:                                     NA                                  NA
## 25:                                     NA                                  NA
## 26:                                     NA                                  NA
## 27:                                     NA                                  NA
##     Medical_Feedback_Phase2_Last_ClickTime Medical_Feedback_Phase2_SubmitTime
##     Medical_Feedback_Phase2_NumClicks Q45
##  1:                                NA  NA
##  2:                                NA  NA
##  3:                                NA  NA
##  4:                                NA  NA
##  5:                                NA  NA
##  6:                                NA  NA
##  7:                                NA  NA
##  8:                                NA  NA
##  9:                                NA  NA
## 10:                                NA  NA
## 11:                                NA  NA
## 12:                                NA  NA
## 13:                                NA  NA
## 14:                                NA  NA
## 15:                                NA  NA
## 16:                                NA  NA
## 17:                                NA  NA
## 18:                                NA  NA
## 19:                                NA  NA
## 20:                                NA  NA
## 21:                                NA  NA
## 22:                                NA  NA
## 23:                                NA  NA
## 24:                                NA  NA
```

```
## 25:                                NA  NA
## 26:                                NA  NA
## 27:                                NA  NA
##     Medical_Feedback_Phase2_NumClicks Q45
##     Positive_Images_Phase1_First_ClickTime
##  1:                                     NA
##  2:                                     NA
##  3:                                     NA
##  4:                                     NA
##  5:                                     NA
##  6:                                     NA
##  7:                                     NA
##  8:                                     NA
##  9:                                     NA
## 10:                                     NA
## 11:                                     NA
## 12:                                     NA
## 13:                                     NA
## 14:                                     NA
## 15:                                     NA
## 16:                                     NA
## 17:                                     NA
## 18:                                     NA
## 19:                                     NA
## 20:                                     NA
## 21:                                     NA
## 22:                                     NA
## 23:                                     NA
## 24:                                     NA
## 25:                                     NA
## 26:                                     NA
## 27:                                     NA
##     Positive_Images_Phase1_First_ClickTime
##     Positive_Images_Phase1_Last_ClickTime Positive_Images_Phase1_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
##  9:                                    NA                                NA
## 10:                                    NA                                NA
## 11:                                    NA                                NA
## 12:                                    NA                                NA
## 13:                                    NA                                NA
## 14:                                    NA                                NA
## 15:                                    NA                                NA
## 16:                                    NA                                NA
## 17:                                    NA                                NA
## 18:                                    NA                                NA
## 19:                                    NA                                NA
## 20:                                    NA                                NA
```

```
## 21:                                    NA                                    NA
## 22:                                    NA                                    NA
## 23:                                    NA                                    NA
## 24:                                    NA                                    NA
## 25:                                    NA                                    NA
## 26:                                    NA                                    NA
## 27:                                    NA                                    NA
##     Positive_Images_Phase1_Last_ClickTime Positive_Images_Phase1_SubmitTime
##     Positive_Images_Phase1_NumClicks Q47 Positive_Images_Phase2_First_ClickTime
##  1:                                 NA  NA                                    NA
##  2:                                 NA  NA                                    NA
##  3:                                 NA  NA                                    NA
##  4:                                 NA  NA                                    NA
##  5:                                 NA  NA                                    NA
##  6:                                 NA  NA                                    NA
##  7:                                 NA  NA                                    NA
##  8:                                 NA  NA                                    NA
##  9:                                 NA  NA                                    NA
## 10:                                 NA  NA                                    NA
## 11:                                 NA  NA                                    NA
## 12:                                 NA  NA                                    NA
## 13:                                 NA  NA                                    NA
## 14:                                 NA  NA                                    NA
## 15:                                 NA  NA                                    NA
## 16:                                 NA  NA                                    NA
## 17:                                 NA  NA                                    NA
## 18:                                 NA  NA                                    NA
## 19:                                 NA  NA                                    NA
## 20:                                 NA  NA                                    NA
## 21:                                 NA  NA                                    NA
## 22:                                 NA  NA                                    NA
## 23:                                 NA  NA                                    NA
## 24:                                 NA  NA                                    NA
## 25:                                 NA  NA                                    NA
## 26:                                 NA  NA                                    NA
## 27:                                 NA  NA                                    NA
##     Positive_Images_Phase1_NumClicks Q47 Positive_Images_Phase2_First_ClickTime
##     Positive_Images_Phase2_Last_ClickTime Positive_Images_Phase2_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
##  9:                                    NA                                NA
## 10:                                    NA                                NA
## 11:                                    NA                                NA
## 12:                                    NA                                NA
## 13:                                    NA                                NA
## 14:                                    NA                                NA
## 15:                                    NA                                NA
## 16:                                    NA                                NA
```

```
## 17:                                    NA                                    NA
## 18:                                    NA                                    NA
## 19:                                    NA                                    NA
## 20:                                    NA                                    NA
## 21:                                    NA                                    NA
## 22:                                    NA                                    NA
## 23:                                    NA                                    NA
## 24:                                    NA                                    NA
## 25:                                    NA                                    NA
## 26:                                    NA                                    NA
## 27:                                    NA                                    NA
##     Positive_Images_Phase2_Last_ClickTime Positive_Images_Phase2_SubmitTime
##     Positive_Images_Phase2_NumClicks Q46 Negative_Images_Phase1_First_ClickTime
##  1:                                 NA  NA                                    NA
##  2:                                 NA  NA                                    NA
##  3:                                 NA  NA                                    NA
##  4:                                 NA  NA                                    NA
##  5:                                 NA  NA                                    NA
##  6:                                 NA  NA                                    NA
##  7:                                 NA  NA                                    NA
##  8:                                 NA  NA                                    NA
##  9:                                 NA  NA                                    NA
## 10:                                 NA  NA                                    NA
## 11:                                 NA  NA                                    NA
## 12:                                 NA  NA                                    NA
## 13:                                 NA  NA                                    NA
## 14:                                 NA  NA                                    NA
## 15:                                 NA  NA                                    NA
## 16:                                 NA  NA                                    NA
## 17:                                 NA  NA                                    NA
## 18:                                 NA  NA                                    NA
## 19:                                 NA  NA                                    NA
## 20:                                 NA  NA                                    NA
## 21:                                 NA  NA                                    NA
## 22:                                 NA  NA                                    NA
## 23:                                 NA  NA                                    NA
## 24:                                 NA  NA                                    NA
## 25:                                 NA  NA                                    NA
## 26:                                 NA  NA                                    NA
## 27:                                 NA  NA                                    NA
##     Positive_Images_Phase2_NumClicks Q46 Negative_Images_Phase1_First_ClickTime
##     Negative_Images_Phase1_Last_ClickTime Negative_Images_Phase1_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
##  9:                                    NA                                NA
## 10:                                    NA                                NA
## 11:                                    NA                                NA
## 12:                                    NA                                NA
```

```
## 13:                                    NA                                    NA
## 14:                                    NA                                    NA
## 15:                                    NA                                    NA
## 16:                                    NA                                    NA
## 17:                                    NA                                    NA
## 18:                                    NA                                    NA
## 19:                                    NA                                    NA
## 20:                                    NA                                    NA
## 21:                                    NA                                    NA
## 22:                                    NA                                    NA
## 23:                                    NA                                    NA
## 24:                                    NA                                    NA
## 25:                                    NA                                    NA
## 26:                                    NA                                    NA
## 27:                                    NA                                    NA
##     Negative_Images_Phase1_Last_ClickTime Negative_Images_Phase1_SubmitTime
##     Negative_Images_Phase1_NumClicks Q48 Negative_Images_Phase2_First_ClickTime
##  1:                                 NA  NA                                   NA
##  2:                                 NA  NA                                   NA
##  3:                                 NA  NA                                   NA
##  4:                                 NA  NA                                   NA
##  5:                                 NA  NA                                   NA
##  6:                                 NA  NA                                   NA
##  7:                                 NA  NA                                   NA
##  8:                                 NA  NA                                   NA
##  9:                                 NA  NA                                   NA
## 10:                                 NA  NA                                   NA
## 11:                                 NA  NA                                   NA
## 12:                                 NA  NA                                   NA
## 13:                                 NA  NA                                   NA
## 14:                                 NA  NA                                   NA
## 15:                                 NA  NA                                   NA
## 16:                                 NA  NA                                   NA
## 17:                                 NA  NA                                   NA
## 18:                                 NA  NA                                   NA
## 19:                                 NA  NA                                   NA
## 20:                                 NA  NA                                   NA
## 21:                                 NA  NA                                   NA
## 22:                                 NA  NA                                   NA
## 23:                                 NA  NA                                   NA
## 24:                                 NA  NA                                   NA
## 25:                                 NA  NA                                   NA
## 26:                                 NA  NA                                   NA
## 27:                                 NA  NA                                   NA
##     Negative_Images_Phase1_NumClicks Q48 Negative_Images_Phase2_First_ClickTime
##     Negative_Images_Phase2_Last_ClickTime Negative_Images_Phase2_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
```

```
##  9:                                    NA                                    NA
## 10:                                    NA                                    NA
## 11:                                    NA                                    NA
## 12:                                    NA                                    NA
## 13:                                    NA                                    NA
## 14:                                    NA                                    NA
## 15:                                    NA                                    NA
## 16:                                    NA                                    NA
## 17:                                    NA                                    NA
## 18:                                    NA                                    NA
## 19:                                    NA                                    NA
## 20:                                    NA                                    NA
## 21:                                    NA                                    NA
## 22:                                    NA                                    NA
## 23:                                    NA                                    NA
## 24:                                    NA                                    NA
## 25:                                    NA                                    NA
## 26:                                    NA                                    NA
## 27:                                    NA                                    NA
##     Negative_Images_Phase2_Last_ClickTime Negative_Images_Phase2_SubmitTime
##     Negative_Images_Phase2_NumClicks Total_Score Random ID Assignment Q1_Score
##  1:                               NA          17     53567      FL_14        0
##  2:                               NA          12     56320      FL_14        1
##  3:                               NA          20     87810      FL_14        1
##  4:                               NA          11     20006      FL_14        0
##  5:                               NA          12     44921      FL_14        1
##  6:                               NA          13     39870      FL_14        0
##  7:                               NA          21     85552      FL_14        0
##  8:                               NA          14     72888      FL_14        1
##  9:                               NA          15     59016      FL_14        1
## 10:                               NA          15     35298      FL_14        1
## 11:                               NA          16     25394      FL_14        1
## 12:                               NA          16     38904      FL_14        1
## 13:                               NA          18     51210      FL_14        1
## 14:                               NA          14     61846      FL_14        1
## 15:                               NA          17     78212      FL_14        0
## 16:                               NA          13     44153      FL_14        1
## 17:                               NA          19     59171      FL_14        1
## 18:                               NA          22     30644      FL_14        0
## 19:                               NA          19     92040      FL_14        1
## 20:                               NA          13     83276      FL_14        1
## 21:                               NA          10     66911      FL_14        1
## 22:                               NA          15     52160      FL_14        1
## 23:                               NA          11     20254      FL_14        0
## 24:                               NA          16     75516      FL_14        1
## 25:                               NA          18     62037      FL_14        1
## 26:                               NA          17     20214      FL_14        0
## 27:                               NA          17     46274      FL_14        1
##     Negative_Images_Phase2_NumClicks Total_Score Random ID Assignment Q1_Score
##     Q2_Score Q3_Score Q4_Score Q5_Score Q6_Score Q7_Score Q8_Score Q9_Score
##  1:        0        0        1        0        0        1        0        1
##  2:        0        0        1        1        1        0        1        0
##  3:        1        0        0        1        0        1        1        1
##  4:        0        0        0        0        0        0        0        1
```

```
##  5:        0        0        0        0        0        0        1        0
##  6:        1        1        0        1        0        0        1        0
##  7:        1        1        0        1        1        1        1        1
##  8:        0        0        0        0        1        1        1        1
##  9:        1        0        0        1        1        0        1        0
## 10:        0        0        1        1        1        0        0        0
## 11:        0        1        1        0        1        1        1        1
## 12:        1        0        1        0        1        0        0        0
## 13:        1        1        1        0        1        1        0        1
## 14:        1        0        0        1        0        0        1        0
## 15:        0        1        0        0        0        0        1        1
## 16:        0        0        0        1        0        0        0        1
## 17:        0        1        0        1        1        1        1        1
## 18:        1        1        1        0        1        0        0        1
## 19:        1        1        1        1        1        1        1        0
## 20:        1        0        0        1        0        0        0        0
## 21:        1        0        1        1        1        0        0        0
## 22:        1        0        1        0        0        1        1        1
## 23:        0        0        0        0        0        0        1        1
## 24:        0        1        0        1        0        1        0        1
## 25:        1        1        0        0        0        1        1        1
## 26:        0        1        0        1        0        1        1        0
## 27:        1        0        1        0        1        0        1        0
##     Q2_Score Q3_Score Q4_Score Q5_Score Q6_Score Q7_Score Q8_Score Q9_Score
##     Q10_Score Q11_Score Q12_Score Q13_Score Q14_Score Q15_Score Q16_Score
##  1:         0         0         1         0         0         1         1
##  2:         0         0         0         0         0         0         1
##  3:         1         0         0         0         0         1         0
##  4:         1         1         0         0         1         0         0
##  5:         1         0         0         0         0         1         1
##  6:         1         0         1         0         0         1         0
##  7:         1         1         0         0         1         1         1
##  8:         1         0         1         0         1         0         1
##  9:         1         0         1         0         0         0         1
## 10:         0         0         0         0         0         0         1
## 11:         0         0         0         0         0         0         1
## 12:         0         0         1         0         1         1         0
## 13:         0         1         1         0         1         0         0
## 14:         1         1         1         0         1         1         1
## 15:         0         1         1         0         1         1         1
## 16:         1         0         1         0         0         0         1
## 17:         0         1         0         0         1         0         1
## 18:         0         0         1         0         1         1         1
## 19:         1         0         0         0         0         1         1
## 20:         1         0         1         0         0         1         0
## 21:         0         0         0         0         1         1         0
## 22:         0         1         1         0         0         0         1
## 23:         0         0         1         0         1         1         1
## 24:         0         1         1         0         1         1         1
## 25:         1         1         0         0         1         0         0
## 26:         1         1         1         0         1         1         1
## 27:         1         0         1         0         1         1         1
##     Q10_Score Q11_Score Q12_Score Q13_Score Q14_Score Q15_Score Q16_Score
##     Q17_Score Q18_Score Q19_Score Q20_Score Q21_Score Q22_Score Q23_Score
```

```
##  1:         1         1         1         0         1         1         1
##  2:         1         1         0         1         1         1         0
##  3:         1         1         1         1         1         1         0
##  4:         1         0         0         0         1         1         1
##  5:         0         1         0         1         1         1         0
##  6:         0         1         0         0         1         0         0
##  7:         1         0         1         0         0         1         1
##  8:         1         1         0         1         1         0         0
##  9:         0         1         0         1         1         1         1
## 10:         1         1         1         1         0         1         1
## 11:         0         0         1         1         1         0         0
## 12:         0         1         1         1         1         0         0
## 13:         1         0         1         0         0         0         0
## 14:         0         0         0         0         1         0         0
## 15:         0         0         0         0         1         1         1
## 16:         0         1         0         1         1         1         0
## 17:         1         0         1         0         0         0         1
## 18:         1         1         1         0         1         1         1
## 19:         0         0         0         1         1         1         0
## 20:         0         1         0         1         1         1         0
## 21:         0         0         0         0         1         0         0
## 22:         1         1         1         1         0         0         0
## 23:         0         0         0         1         1         1         0
## 24:         0         1         0         0         0         1         1
## 25:         1         0         1         0         1         0         1
## 26:         1         0         1         0         0         0         1
## 27:         1         0         0         1         1         1         0
##     Q17_Score Q18_Score Q19_Score Q20_Score Q21_Score Q22_Score Q23_Score
##     Q24_Score Q25_Score Q26_Score Q27_Score Q28_Score Q29_Score Q30_Score
##  1:         1         1         1         0         0         1         1
##  2:         0         0         0         0         0         0         1
##  3:         1         1         0         0         1         1         1
##  4:         0         0         0         0         0         1         1
##  5:         1         0         0         0         0         1         1
##  6:         1         0         1         0         0         1         1
##  7:         0         1         1         1         1         0         0
##  8:         0         0         0         1         0         0         0
##  9:         1         0         0         0         0         0         1
## 10:         1         1         0         1         0         0         1
## 11:         0         0         1         1         1         1         1
## 12:         1         1         0         1         0         0         1
## 13:         0         1         1         1         1         0         1
## 14:         0         0         1         0         1         1         0
## 15:         1         1         0         0         1         1         1
## 16:         0         0         0         0         0         1         1
## 17:         1         1         1         0         1         0         1
## 18:         0         1         1         1         1         1         1
## 19:         1         1         0         0         0         1         1
## 20:         1         0         0         0         0         0         1
## 21:         0         0         0         1         0         0         1
## 22:         0         0         0         1         0         0         0
## 23:         1         0         0         0         0         1         0
## 24:         0         0         1         0         1         1         0
## 25:         0         1         1         1         1         0         0
```

```
## 26:         1         1         0         0         1         0         1
## 27:         1         0         1         0         0         0         1
##     Q24_Score Q25_Score Q26_Score Q27_Score Q28_Score Q29_Score Q30_Score
##     Assignment_Group TaskPhase1_Score TaskPhase2_Score TaskPhase3_Score
##  1:     Self-Reflect              0.3              0.6              0.8
##  2:     Self-Reflect              0.5              0.4              0.3
##  3:     Self-Reflect              0.7              0.5              0.7
##  4:     Self-Reflect              0.2              0.3              0.5
##  5:     Self-Reflect              0.3              0.4              0.5
##  6:     Self-Reflect              0.5              0.3              0.5
##  7:     Self-Reflect              0.8              0.6              0.6
##  8:     Self-Reflect              0.6              0.6              0.2
##  9:     Self-Reflect              0.6              0.4              0.5
## 10:     Self-Reflect              0.4              0.5              0.6
## 11:     Self-Reflect              0.7              0.3              0.6
## 12:     Self-Reflect              0.4              0.6              0.5
## 13:     Self-Reflect              0.7              0.5              0.5
## 14:     Self-Reflect              0.5              0.5              0.4
## 15:     Self-Reflect              0.3              0.5              0.8
## 16:     Self-Reflect              0.4              0.4              0.4
## 17:     Self-Reflect              0.7              0.5              0.6
## 18:     Self-Reflect              0.5              0.7              0.9
## 19:     Self-Reflect              0.9              0.3              0.6
## 20:     Self-Reflect              0.4              0.4              0.4
## 21:     Self-Reflect              0.5              0.2              0.3
## 22:     Self-Reflect              0.6              0.7              0.1
## 23:     Self-Reflect              0.2              0.5              0.4
## 24:     Self-Reflect              0.5              0.6              0.5
## 25:     Self-Reflect              0.7              0.4              0.6
## 26:     Self-Reflect              0.5              0.7              0.5
## 27:     Self-Reflect              0.6              0.6              0.5
##     Assignment_Group TaskPhase1_Score TaskPhase2_Score TaskPhase3_Score
##     housenumber                street             city        county
##  1:       12-02           Plaza Road        Fair Lawn United States
##  2:         312          Mint Street          Chennai         India
##  3:         312          Mint Street          Chennai         India
##  4:         312          Mint Street          Chennai United States
##  5:         103         Pinata Court        Kissimmee United States
##  6:        1711       Clubhouse Road           Reston United States
##  7:         312          Mint Street          Chennai         India
##  8:         312          Mint Street          Chennai         India
##  9:         312          Mint Street          Chennai         India
## 10:         312          Mint Street          Chennai         India
## 11:         312          Mint Street          Chennai         India
## 12:         312          Mint Street          Chennai         India
## 13:         312         Unnamed Road        Nagercoil United States
## 14:         312          Mint Street          Chennai         India
## 15:         509          24th Street Colorado Springs United States
## 16:         227  North Spring Street      Los Angeles United States
## 17:         227  North Spring Street      Los Angeles United States
## 18:         227           1st Street         Tiruppur         India
## 19:         312          Mint Street          Chennai         India
## 20:         227  North Spring Street      Los Angeles United States
## 21:         312          Mint Street          Chennai         India
```

```
## 22:         227    North Spring Street      Los Angeles United States
## 23:         227    North Spring Street      Los Angeles United States
## 24:         227    North Spring Street      Los Angeles United States
## 25:         227    North Spring Street      Los Angeles United States
## 26:       17001 Kieth Harrow Boulevard          Houston United States
## 27:         227    North Spring Street      Los Angeles United States
##     housenumber                 street             city        county
##           state    zip       country age_bin edu_bin assign_bin US_Dummy
##  1: New Jersey  07410 United States       4       2          5        1
##  2: Tamil Nadu 600003         India       3       2          5        0
##  3: Tamil Nadu 600003         India       3       2          5        0
##  4:     Kansas 600003 United States       4       2          5        1
##  5:    Florida  34743 United States       4       2          5        1
##  6:   Virginia  20190 United States       2       2          5        1
##  7: Tamil Nadu 600003         India       2       2          5        0
##  8: Tamil Nadu 600003         India       3       2          5        0
##  9: Tamil Nadu 600003         India       2       2          5        0
## 10: Tamil Nadu 600003         India       2       2          5        0
## 11: Tamil Nadu 600003         India       3       2          5        0
## 12: Tamil Nadu 600003         India       3       2          5        0
## 13:     Kansas 629001 United States       2       2          5        1
## 14: Tamil Nadu 600003         India       2       2          5        0
## 15:   Colorado  80904 United States       2       2          5        1
## 16: California  90012 United States       4       2          5        1
## 17: California  90012 United States       4       2          5        1
## 18: Tamil Nadu 641607         India       2       2          5        0
## 19: Tamil Nadu 600003         India       2       2          5        0
## 20: California  90012 United States       5       2          5        1
## 21: Tamil Nadu 600003         India       2       2          5        0
## 22: California  90012 United States       4       4          5        1
## 23: California  90012 United States       5       2          5        1
## 24: California  90012 United States       4       4          5        1
## 25: California  90012 United States       5       1          5        1
## 26:      Texas  77084 United States       2       2          5        1
## 27: California  90012 United States       4       2          5        1
##           state    zip       country age_bin edu_bin assign_bin US_Dummy
##     Male_Dummy Treatment_Dummy score_phase2_3 Self_Reflect_Dummy
##  1:          1               1            0.6                  1
##  2:          1               1            0.4                  1
##  3:          1               1            0.5                  1
##  4:          0               1            0.3                  1
##  5:          1               1            0.4                  1
##  6:          1               1            0.3                  1
##  7:          0               1            0.6                  1
##  8:          1               1            0.6                  1
##  9:          1               1            0.4                  1
## 10:          1               1            0.5                  1
## 11:          1               1            0.3                  1
## 12:          1               1            0.6                  1
## 13:          0               1            0.5                  1
## 14:          0               1            0.5                  1
## 15:          1               1            0.5                  1
## 16:          1               1            0.4                  1
## 17:          0               1            0.5                  1
```

```
## 18:          1               1            0.7                  1
## 19:          1               1            0.3                  1
## 20:          1               1            0.4                  1
## 21:          0               1            0.2                  1
## 22:          0               1            0.7                  1
## 23:          0               1            0.5                  1
## 24:          1               1            0.6                  1
## 25:          0               1            0.4                  1
## 26:          1               1            0.7                  1
## 27:          1               1            0.6                  1
##     Male_Dummy Treatment_Dummy score_phase2_3 Self_Reflect_Dummy
##     Med_Feedback_Dummy Positive_Images_Dummy Negative_Images_Dummy
##  1:                  0                     0                     0
##  2:                  0                     0                     0
##  3:                  0                     0                     0
##  4:                  0                     0                     0
##  5:                  0                     0                     0
##  6:                  0                     0                     0
##  7:                  0                     0                     0
##  8:                  0                     0                     0
##  9:                  0                     0                     0
## 10:                  0                     0                     0
## 11:                  0                     0                     0
## 12:                  0                     0                     0
## 13:                  0                     0                     0
## 14:                  0                     0                     0
## 15:                  0                     0                     0
## 16:                  0                     0                     0
## 17:                  0                     0                     0
## 18:                  0                     0                     0
## 19:                  0                     0                     0
## 20:                  0                     0                     0
## 21:                  0                     0                     0
## 22:                  0                     0                     0
## 23:                  0                     0                     0
## 24:                  0                     0                     0
## 25:                  0                     0                     0
## 26:                  0                     0                     0
## 27:                  0                     0                     0
##     Med_Feedback_Dummy Positive_Images_Dummy Negative_Images_Dummy
##     Self_Reflect_Q1_NumWords Self_Reflect_Q2_NumWords
##  1:                        1                        1
##  2:                        2                        3
##  3:                        1                        1
##  4:                        1                        1
##  5:                        1                        1
##  6:                        1                        1
##  7:                        1                        1
##  8:                        1                        1
##  9:                        1                        1
## 10:                        1                        1
## 11:                        1                        1
## 12:                        1                        2
## 13:                        1                        1
```

```
## 14:                          1                          1
## 15:                          4                          2
## 16:                          1                          1
## 17:                          3                          1
## 18:                          2                          2
## 19:                          1                          1
## 20:                          1                          1
## 21:                          1                          1
## 22:                          1                          5
## 23:                          1                          1
## 24:                          2                          2
## 25:                          1                          2
## 26:                          1                          1
## 27:                          1                          1
##     Self_Reflect_Q1_NumWords Self_Reflect_Q2_NumWords
```

```
d_respondents[ Assignment_Group == "Control",
               Control_Phase1_NumWords := sapply(strsplit(Control_Q1, " "), length)]

d_respondents[ Assignment_Group == "Control",
               Control_Phase2_NumWords := sapply(strsplit(Control_Q2, " "), length)]


d_respondents[ Assignment_Group == "Control", Control_Phase1_NumWords]
```

```
##  [1] 31 13  5  5 15  3  1  3  5  2  2 11  3  7 11 17  2  2 33  2 12 12  6 17  4
## [26]  5  1 13  6  5  9 15 11  1  5 11 11 16 15  3 28  6  5  2 25 15  8  4 23  6
## [51] 27  4  5  2 14  8  9  6  2 19  2 12 38  9 27 26 34 16  2
```

```
d_respondents[ Assignment_Group == "Control", Control_Phase2_NumWords]
```

```
##  [1] 24 14  1  5 19  4  4  2  6  1  2 13  1  1  5 16  2  1 33  1 11 11  9 12  5
## [26]  6  1  4  3  5 15 12  9  1  4  5 19 17 20  6 32 12  6  2 16 18 13  8 33  6
## [51] 22  3  3  2 16  2  4  5  1 15  6 14 25 51 21 27 21 18  1
```

```
# some noncompliant responses for control Q1...assume noncompliant responses have less than 5 words
d_respondents[d_respondents[ , Control_Phase1_NumWords < 5]]
```

```
##                StartDate             EndDate     Status       IPAddress Progress
##  1: 2020-11-09 20:48:35 2020-11-09 20:55:02 IP Address  98.156.202.244      100
##  2: 2020-11-09 20:49:47 2020-11-09 20:55:09 IP Address   209.161.84.74      100
##  3: 2020-11-09 20:48:31 2020-11-09 20:55:37 IP Address  142.196.45.200      100
##  4: 2020-11-09 20:47:27 2020-11-09 20:56:12 IP Address 122.174.250.243      100
##  5: 2020-11-09 20:48:28 2020-11-09 20:56:18 IP Address    196.17.66.57      100
##  6: 2020-11-09 20:49:28 2020-11-09 20:56:38 IP Address    27.57.13.208      100
##  7: 2020-11-09 20:49:47 2020-11-09 20:58:06 IP Address  122.164.55.209      100
##  8: 2020-11-09 20:50:47 2020-11-09 20:58:22 IP Address  122.164.202.95      100
##  9: 2020-11-09 20:51:34 2020-11-09 20:59:57 IP Address   47.152.51.207      100
## 10: 2020-11-09 20:57:56 2020-11-09 21:02:23 IP Address 122.174.151.139      100
## 11: 2020-11-09 20:48:35 2020-11-09 21:02:39 IP Address  157.46.102.146      100
## 12: 2020-11-09 20:52:36 2020-11-09 21:07:11 IP Address    157.51.78.29      100
## 13: 2020-11-09 20:52:35 2020-11-09 21:10:06 IP Address 122.183.167.126      100
## 14: 2020-11-09 21:03:37 2020-11-09 21:11:05 IP Address   98.167.34.134      100
## 15: 2020-11-09 21:08:57 2020-11-09 21:14:38 IP Address   68.173.94.179      100
## 16: 2020-11-09 21:17:42 2020-11-09 21:23:58 IP Address   196.17.65.121      100
## 17: 2020-11-09 21:24:22 2020-11-09 21:29:03 IP Address   196.17.65.138      100
```

```
## 18: 2020-11-09 21:24:15 2020-11-09 21:36:50 IP Address   196.17.65.223      100
## 19: 2020-11-12 17:51:27 2020-11-12 17:57:12 IP Address   209.161.87.14      100
## 20: 2020-11-12 20:55:05 2020-11-12 21:00:27 IP Address   196.17.65.243      100
##     Survey_Duration Finished        RecordedDate        ResponseId
##  1:             386     TRUE 2020-11-09 20:55:02 R_2XjMJgoofEcDbU1
##  2:             321     TRUE 2020-11-09 20:55:09 R_1gcIa0uhboILACk
##  3:             426     TRUE 2020-11-09 20:55:38 R_bNHezdAAjPBerUR
##  4:             524     TRUE 2020-11-09 20:56:12 R_2Cx0P7btUAYd6dt
##  5:             469     TRUE 2020-11-09 20:56:18 R_2SH7ZeMJ5sQMTpQ
##  6:             429     TRUE 2020-11-09 20:56:38 R_PLgQnDuE2wDMALf
##  7:             499     TRUE 2020-11-09 20:58:06 R_ResKlpqTLyXn4CR
##  8:             454     TRUE 2020-11-09 20:58:22 R_2q4px8MU5vpdopw
##  9:             502     TRUE 2020-11-09 20:59:57 R_1hX8RooK2JnPmfX
## 10:             266     TRUE 2020-11-09 21:02:23 R_elf7SYl1dTOMnn3
## 11:             844     TRUE 2020-11-09 21:02:40 R_YW6P5qRdhgNU3Xb
## 12:             874     TRUE 2020-11-09 21:07:12 R_1omRpz0JtAUQxPV
## 13:            1051     TRUE 2020-11-09 21:10:07 R_3HRjYrs3O0i2cuL
## 14:             448     TRUE 2020-11-09 21:11:05 R_2TS08HmW0tsTA89
## 15:             341     TRUE 2020-11-09 21:14:39 R_1gdPkjbtH8Y4LGJ
## 16:             376     TRUE 2020-11-09 21:23:59 R_6hU3oRBQBvJN237
## 17:             280     TRUE 2020-11-09 21:29:04 R_2vewmj4nDkv81OY
## 18:             755     TRUE 2020-11-09 21:36:50 R_2BtFxaVYFChnsJh
## 19:             345     TRUE 2020-11-12 17:57:13 R_3qDlr3Tq7S8NdLB
## 20:             322     TRUE 2020-11-12 21:00:27 R_296Rk3p09knTrX1
##     RecipientLastName RecipientFirstName RecipientEmail ExternalReference
##  1:                NA                 NA             NA                NA
##  2:                NA                 NA             NA                NA
##  3:                NA                 NA             NA                NA
##  4:                NA                 NA             NA                NA
##  5:                NA                 NA             NA                NA
##  6:                NA                 NA             NA                NA
##  7:                NA                 NA             NA                NA
##  8:                NA                 NA             NA                NA
##  9:                NA                 NA             NA                NA
## 10:                NA                 NA             NA                NA
## 11:                NA                 NA             NA                NA
## 12:                NA                 NA             NA                NA
## 13:                NA                 NA             NA                NA
## 14:                NA                 NA             NA                NA
## 15:                NA                 NA             NA                NA
## 16:                NA                 NA             NA                NA
## 17:                NA                 NA             NA                NA
## 18:                NA                 NA             NA                NA
## 19:                NA                 NA             NA                NA
## 20:                NA                 NA             NA                NA
##     LocationLatitude LocationLongitude DistributionChannel UserLanguage
##  1:            32.90            -96.79           anonymous           EN
##  2:            37.75            -97.82           anonymous           EN
##  3:            28.39            -81.42           anonymous           EN
##  4:            13.09             80.28           anonymous           EN
##  5:            34.05           -118.24           anonymous           EN
##  6:            13.09             80.28           anonymous           EN
##  7:            13.09             80.28           anonymous           EN
##  8:            13.09             80.28           anonymous           EN
```

```
##  9:            34.12          -117.44          anonymous           EN
## 10:            13.09            80.28          anonymous           EN
## 11:            13.09            80.28          anonymous           EN
## 12:            13.09            80.28          anonymous           EN
## 13:            13.09            80.28          anonymous           EN
## 14:            35.99          -115.12          anonymous           EN
## 15:            40.77           -73.83          anonymous           EN
## 16:            34.05          -118.24          anonymous           EN
## 17:            34.05          -118.24          anonymous           EN
## 18:            34.05          -118.24          anonymous           EN
## 19:            37.75           -97.82          anonymous           EN
## 20:            34.05          -118.24          anonymous           EN
##     Amazon_Turk_ID Gender Q82_3_TEXT Age_Range          Education_Level
##  1: A2PS6OEHDBKAUA   Male         NA     35-44         Bachelor's degree
##  2: A3SFQ9S58CJVHE Female         NA     45-54         Bachelor's degree
##  3: A33ITFFF5J4GMF Female         NA     25-34         Bachelor's degree
##  4:  APK5HFZ4GRBBX   Male         NA     35-44         Bachelor's degree
##  5: A1BIQMZEP659HA Female         NA     45-54         Bachelor's degree
##  6: A1DG4ILSULGPK8   Male         NA     35-44         Bachelor's degree
##  7:  AAOE3AXMQDDH1 Female         NA     25-34 Master's degree and above
##  8: A1NTYZ6IERUPCL   Male         NA     35-44         Bachelor's degree
##  9: A35AZOPPHXJRTM   Male         NA     25-34 Master's degree and above
## 10: A1297K7FECN9JJ Female         NA     25-34 Master's degree and above
## 11: A3FE33S2NMC46Q   Male         NA     18-24         Bachelor's degree
## 12: A1NIV2BXOF89GV   Male         NA     18-24         Bachelor's degree
## 13: A16JX1MOPDCYDN   Male         NA     25-34         Bachelor's degree
## 14: A2VE2JMORFYIOU   Male         NA     25-34 Master's degree and above
## 15: A2OXZUI4QTOY9B Female         NA     25-34         Bachelor's degree
## 16:  AIB6EOBN2VXEO   Male         NA     45-54 Master's degree and above
## 17:  AISP1W21TPOH6   Male         NA     45-54 Master's degree and above
## 18:  ADLKIX3SBFREV   Male         NA     55-64         Bachelor's degree
## 19: A1WUFHQ1YGHK3C   Male         NA     55-64         Bachelor's degree
## 20: A21XAQYZXTK7ML Female         NA     55-64         Bachelor's degree
##            Q1        Q2        Q3        Q4        Q5        Q6        Q7
##  1:    Normal Pneumonia    Normal Pneumonia Pneumonia    Normal    Normal
##  2: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
##  3: Pneumonia    Normal    Normal    Normal Pneumonia Pneumonia Pneumonia
##  4:    Normal Pneumonia    Normal Pneumonia Pneumonia Pneumonia    Normal
##  5:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
##  6:    Normal Pneumonia Pneumonia    Normal    Normal    Normal    Normal
##  7:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
##  8:    Normal    Normal Pneumonia    Normal Pneumonia    Normal    Normal
##  9:    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 10:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia Pneumonia
## 11: Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia
## 12:    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 13: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 14:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 15:    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia    Normal
## 16:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 17:    Normal Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia
## 18:    Normal    Normal Pneumonia Pneumonia Pneumonia    Normal    Normal
## 19: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 20:    Normal    Normal    Normal Pneumonia    Normal Pneumonia    Normal
```

```
##            Q8        Q9       Q10                    Control_Q1
##  1: Pneumonia Pneumonia Pneumonia           good and thoughtful
##  2: Pneumonia Pneumonia Pneumonia                     emergency
##  3: Pneumonia Pneumonia    Normal           health is important
##  4: Pneumonia    Normal Pneumonia                 SUTTER HEALTH
##  5:    Normal Pneumonia Pneumonia          HEALTH ADVERTIDEMENT
##  6:    Normal Pneumonia    Normal             SUTTER HEALTH NET
##  7: Pneumonia    Normal Pneumonia                  CAR HOSPITAL
##  8:    Normal Pneumonia Pneumonia                 SUTTER HEALTH
##  9: Pneumonia Pneumonia    Normal           emergency situation
## 10:    Normal Pneumonia    Normal       NICE QUALITY NICE PLACE
## 11: Pneumonia    Normal Pneumonia                       nothing
## 12:    Normal Pneumonia    Normal                       NOTHING
## 13: Pneumonia Pneumonia Pneumonia            Checkup the hospit
## 14:    Normal Pneumonia    Normal                  health issue
## 15:    Normal Pneumonia Pneumonia emergency hospital in patient
## 16:    Normal Pneumonia Pneumonia       i like it advertisement
## 17:    Normal    Normal Pneumonia                 SUTTER HEALTH
## 18:    Normal    Normal    Normal                 sutter health
## 19: Pneumonia Pneumonia Pneumonia                 sutter health
## 20:    Normal    Normal Pneumonia                 sutter health
##     Control_Phase1_First_ClickTime Control_Phase1_Last_ClickTime
##  1:                         12.722                        14.77
##  2:                         36.299                        36.30
##  3:                         78.010                        78.01
##  4:                         10.598                        75.60
##  5:                          3.853                        26.77
##  6:                        108.448                       108.45
##  7:                        101.526                       182.07
##  8:                         67.401                        67.40
##  9:                        119.530                       119.53
## 10:                         32.068                        49.68
## 11:                        102.574                       102.57
## 12:                         84.660                       182.44
## 13:                        128.202                       162.13
## 14:                         73.585                        73.58
## 15:                         54.780                        54.78
## 16:                         10.635                        10.63
## 17:                         25.045                        92.99
## 18:                          8.071                        95.41
## 19:                         63.827                       132.99
## 20:                         56.171                        56.17
##     Control_Phase1_SubmitTime Control_Phase1_NumClicks       Q11       Q12
##  1:                    115.60                        3 Pneumonia    Normal
##  2:                     90.96                        1 Pneumonia Pneumonia
##  3:                     91.94                        1    Normal Pneumonia
##  4:                    180.02                        5    Normal Pneumonia
##  5:                     90.61                        2 Pneumonia    Normal
##  6:                    124.82                        1    Normal    Normal
##  7:                    259.14                        7    Normal Pneumonia
##  8:                    180.02                        1 Pneumonia    Normal
##  9:                    129.07                        1 Pneumonia Pneumonia
## 10:                     81.69                        2    Normal Pneumonia
## 11:                    180.02                        1    Normal Pneumonia
```

```
## 12:                   360.11                       2    Normal Pneumonia
## 13:                   180.10                       7 Pneumonia Pneumonia
## 14:                    84.97                       1    Normal    Normal
## 15:                    86.14                       1    Normal Pneumonia
## 16:                    99.51                       1 Pneumonia    Normal
## 17:                    96.43                       4 Pneumonia    Normal
## 18:                   104.32                      10    Normal    Normal
## 19:                   136.71                       6 Pneumonia    Normal
## 20:                    90.96                       1    Normal    Normal
##          Q13       Q14       Q15       Q16       Q17       Q18       Q19
##  1: Pnuemonia    Normal Pneumonia Pneumonia Pneumonia    Normal Pneumonia
##  2:    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
##  3: Pnuemonia Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia
##  4:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
##  5:    Normal Pneumonia Pneumonia    Normal Pneumonia    Normal    Normal
##  6: Pnuemonia    Normal    Normal Pneumonia    Normal    Normal Pneumonia
##  7:    Normal Pneumonia Pneumonia Pneumonia    Normal Pneumonia    Normal
##  8: Pnuemonia    Normal    Normal Pneumonia Pneumonia    Normal Pneumonia
##  9: Pnuemonia Pneumonia Pneumonia Pneumonia Pneumonia    Normal Pneumonia
## 10:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 11:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 12: Pnuemonia    Normal    Normal Pneumonia    Normal Pneumonia    Normal
## 13: Pnuemonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 14: Pnuemonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia    Normal
## 15: Pnuemonia    Normal    Normal Pneumonia Pneumonia Pneumonia    Normal
## 16: Pnuemonia    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 17: Pnuemonia    Normal Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 18:    Normal    Normal    Normal    Normal    Normal Pneumonia    Normal
## 19: Pnuemonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 20:    Normal Pneumonia    Normal    Normal    Normal Pneumonia    Normal
##          Q20                                        Control_Q2
##  1:    Normal                       feels good and lightfully
##  2: Pneumonia                     immune system and prevention
##  3:    Normal                                     prvenar 13
##  4: Pneumonia                                         HEALTH
##  5:    Normal                          FEELINGS ADVERTISEMENT
##  6:    Normal                                     COMMERCIAL
##  7:    Normal                                  HOSPITAL BEACH
##  8:    Normal                                     COMMERCIAL
##  9:    Normal                                   entertaining
## 10: Pneumonia                         NICE QUALITY  NICE PLACE
## 11:    Normal                                        nothing
## 12: Pneumonia                                        NOTHING
## 13: Pneumonia           View the celebrating to the hospital.
## 14:    Normal                                 mind refreshness
## 15:    Normal the mother in hospital but daughter is merriage
## 16:    Normal                          very nice advertisement
## 17:    Normal                                     PREVNAR 13
## 18:    Normal                                  marvel-prevner
## 19: Pneumonia               affecting human feel the our life
## 20:    Normal                                  MARVEL-PREVNER
##     Control_Phase2_First_ClickTime Control_Phase2_Last_ClickTime
##  1:                         20.163                        23.975
##  2:                         17.844                        82.908
```

```
##  3:                         68.557                        68.717
##  4:                          4.138                         4.138
##  5:                         43.431                        62.168
##  6:                          7.503                        72.846
##  7:                         64.245                        67.119
##  8:                          4.783                         4.783
##  9:                         50.793                        72.886
## 10:                         11.703                        22.887
## 11:                         17.554                        17.554
## 12:                         72.762                        72.762
## 13:                          9.775                        62.705
## 14:                          5.610                         5.610
## 15:                         22.357                        22.357
## 16:                         95.040                        95.040
## 17:                         73.154                        73.154
## 18:                          7.337                        24.696
## 19:                         35.276                        35.276
## 20:                          4.445                         4.445
##     Control_Phase2_SubmitTime Control_Phase2_NumClicks       Q21       Q22
##  1:                     79.02                       3    Normal Pneumonia
##  2:                     86.90                       7 Pneumonia Pneumonia
##  3:                     94.39                       2 Pneumonia Pneumonia
##  4:                    180.02                       1    Normal Pneumonia
##  5:                     75.48                       2    Normal    Normal
##  6:                     81.90                       2    Normal Pneumonia
##  7:                     72.42                       2 Pneumonia    Normal
##  8:                    180.05                       1    Normal Pneumonia
##  9:                     81.91                       2    Normal    Normal
## 10:                     71.23                       2    Normal Pneumonia
## 11:                    253.03                       1    Normal Pneumonia
## 12:                    180.08                       1    Normal Pneumonia
## 13:                     72.27                       5 Pneumonia Pneumonia
## 14:                     77.61                       1 Pneumonia    Normal
## 15:                     71.35                       1    Normal Pneumonia
## 16:                     99.72                       1 Pneumonia Pneumonia
## 17:                     90.50                       1 Pneumonia    Normal
## 18:                    160.22                       5    Normal    Normal
## 19:                     75.79                       1 Pneumonia Pneumonia
## 20:                     77.76                       1    Normal    Normal
##          Q23       Q24       Q25       Q26       Q27       Q28       Q29
##  1: Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia    Normal
##  2: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
##  3: Pneumonia Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia
##  4:    Normal Pneumonia    Normal Pneumonia    Normal    Normal    Normal
##  5: Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia    Normal
##  6:    Normal Pneumonia    Normal    Normal    Normal    Normal    Normal
##  7:    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
##  8:    Normal    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
##  9: Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia    Normal
## 10:    Normal    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
## 11:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 12: Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal    Normal
## 13: Pneumonia    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 14:    Normal    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia
```

```
## 15: Pneumonia    Normal Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 16: Pneumonia    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 17: Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia    Normal
## 18:    Normal    Normal    Normal Pneumonia    Normal    Normal    Normal
## 19: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 20:    Normal    Normal    Normal Pneumonia    Normal    Normal    Normal
##          Q30 Q36 Self_Reflect_Q1 Self_Reflect_Phase1_First_ClickTime
##  1:    Normal                                                     NA
##  2: Pneumonia                                                     NA
##  3:    Normal                                                     NA
##  4: Pneumonia                                                     NA
##  5:    Normal                                                     NA
##  6:    Normal                                                     NA
##  7: Pneumonia                                                     NA
##  8:    Normal                                                     NA
##  9: Pneumonia                                                     NA
## 10:    Normal                                                     NA
## 11: Pneumonia                                                     NA
## 12:    Normal                                                     NA
## 13: Pneumonia                                                     NA
## 14: Pneumonia                                                     NA
## 15:    Normal                                                     NA
## 16: Pneumonia                                                     NA
## 17: Pneumonia                                                     NA
## 18:    Normal                                                     NA
## 19: Pneumonia                                                     NA
## 20:    Normal                                                     NA
##     Self_Reflect_Phase1_Last_ClickTime Self_Reflect_Phase1_SubmitTime
##  1:                                 NA                             NA
##  2:                                 NA                             NA
##  3:                                 NA                             NA
##  4:                                 NA                             NA
##  5:                                 NA                             NA
##  6:                                 NA                             NA
##  7:                                 NA                             NA
##  8:                                 NA                             NA
##  9:                                 NA                             NA
## 10:                                 NA                             NA
## 11:                                 NA                             NA
## 12:                                 NA                             NA
## 13:                                 NA                             NA
## 14:                                 NA                             NA
## 15:                                 NA                             NA
## 16:                                 NA                             NA
## 17:                                 NA                             NA
## 18:                                 NA                             NA
## 19:                                 NA                             NA
## 20:                                 NA                             NA
##     Self_Reflect_Phase1_NumClicks Q41 Self_Reflect_Q2
##  1:                            NA
##  2:                            NA
##  3:                            NA
##  4:                            NA
##  5:                            NA
```

```
##  6:                            NA
##  7:                            NA
##  8:                            NA
##  9:                            NA
## 10:                            NA
## 11:                            NA
## 12:                            NA
## 13:                            NA
## 14:                            NA
## 15:                            NA
## 16:                            NA
## 17:                            NA
## 18:                            NA
## 19:                            NA
## 20:                            NA
##     Self_Reflect_Phase2_First_ClickTime Self_Reflect_Phase2_Last_ClickTime
##  1:                                  NA                                 NA
##  2:                                  NA                                 NA
##  3:                                  NA                                 NA
##  4:                                  NA                                 NA
##  5:                                  NA                                 NA
##  6:                                  NA                                 NA
##  7:                                  NA                                 NA
##  8:                                  NA                                 NA
##  9:                                  NA                                 NA
## 10:                                  NA                                 NA
## 11:                                  NA                                 NA
## 12:                                  NA                                 NA
## 13:                                  NA                                 NA
## 14:                                  NA                                 NA
## 15:                                  NA                                 NA
## 16:                                  NA                                 NA
## 17:                                  NA                                 NA
## 18:                                  NA                                 NA
## 19:                                  NA                                 NA
## 20:                                  NA                                 NA
##     Self_Reflect_Phase2_SubmitTime Self_Reflect_Phase2_NumClicks Q38
##  1:                             NA                            NA
##  2:                             NA                            NA
##  3:                             NA                            NA
##  4:                             NA                            NA
##  5:                             NA                            NA
##  6:                             NA                            NA
##  7:                             NA                            NA
##  8:                             NA                            NA
##  9:                             NA                            NA
## 10:                             NA                            NA
## 11:                             NA                            NA
## 12:                             NA                            NA
## 13:                             NA                            NA
## 14:                             NA                            NA
## 15:                             NA                            NA
## 16:                             NA                            NA
## 17:                             NA                            NA
```

```
## 18:                              NA                              NA
## 19:                              NA                              NA
## 20:                              NA                              NA
##     Medical_Feedback_Phase1_First_ClickTime
##  1:                                      NA
##  2:                                      NA
##  3:                                      NA
##  4:                                      NA
##  5:                                      NA
##  6:                                      NA
##  7:                                      NA
##  8:                                      NA
##  9:                                      NA
## 10:                                      NA
## 11:                                      NA
## 12:                                      NA
## 13:                                      NA
## 14:                                      NA
## 15:                                      NA
## 16:                                      NA
## 17:                                      NA
## 18:                                      NA
## 19:                                      NA
## 20:                                      NA
##     Medical_Feedback_Phase1_Last_ClickTime Medical_Feedback_Phase1_SubmitTime
##  1:                                     NA                                NA
##  2:                                     NA                                NA
##  3:                                     NA                                NA
##  4:                                     NA                                NA
##  5:                                     NA                                NA
##  6:                                     NA                                NA
##  7:                                     NA                                NA
##  8:                                     NA                                NA
##  9:                                     NA                                NA
## 10:                                     NA                                NA
## 11:                                     NA                                NA
## 12:                                     NA                                NA
## 13:                                     NA                                NA
## 14:                                     NA                                NA
## 15:                                     NA                                NA
## 16:                                     NA                                NA
## 17:                                     NA                                NA
## 18:                                     NA                                NA
## 19:                                     NA                                NA
## 20:                                     NA                                NA
##     Medical_Feedback_Phase1_NumClicks Q43
##  1:                                NA
##  2:                                NA
##  3:                                NA
##  4:                                NA
##  5:                                NA
##  6:                                NA
##  7:                                NA
##  8:                                NA
```

```
##  9:                                NA
## 10:                                NA
## 11:                                NA
## 12:                                NA
## 13:                                NA
## 14:                                NA
## 15:                                NA
## 16:                                NA
## 17:                                NA
## 18:                                NA
## 19:                                NA
## 20:                                NA
##     Medical_Feedback_Phase2_First_ClickTime
##  1:                                      NA
##  2:                                      NA
##  3:                                      NA
##  4:                                      NA
##  5:                                      NA
##  6:                                      NA
##  7:                                      NA
##  8:                                      NA
##  9:                                      NA
## 10:                                      NA
## 11:                                      NA
## 12:                                      NA
## 13:                                      NA
## 14:                                      NA
## 15:                                      NA
## 16:                                      NA
## 17:                                      NA
## 18:                                      NA
## 19:                                      NA
## 20:                                      NA
##     Medical_Feedback_Phase2_Last_ClickTime Medical_Feedback_Phase2_SubmitTime
##  1:                                     NA                                 NA
##  2:                                     NA                                 NA
##  3:                                     NA                                 NA
##  4:                                     NA                                 NA
##  5:                                     NA                                 NA
##  6:                                     NA                                 NA
##  7:                                     NA                                 NA
##  8:                                     NA                                 NA
##  9:                                     NA                                 NA
## 10:                                     NA                                 NA
## 11:                                     NA                                 NA
## 12:                                     NA                                 NA
## 13:                                     NA                                 NA
## 14:                                     NA                                 NA
## 15:                                     NA                                 NA
## 16:                                     NA                                 NA
## 17:                                     NA                                 NA
## 18:                                     NA                                 NA
## 19:                                     NA                                 NA
## 20:                                     NA                                 NA
```

```
##     Medical_Feedback_Phase2_NumClicks Q45
##  1:                                NA  NA
##  2:                                NA  NA
##  3:                                NA  NA
##  4:                                NA  NA
##  5:                                NA  NA
##  6:                                NA  NA
##  7:                                NA  NA
##  8:                                NA  NA
##  9:                                NA  NA
## 10:                                NA  NA
## 11:                                NA  NA
## 12:                                NA  NA
## 13:                                NA  NA
## 14:                                NA  NA
## 15:                                NA  NA
## 16:                                NA  NA
## 17:                                NA  NA
## 18:                                NA  NA
## 19:                                NA  NA
## 20:                                NA  NA
##     Positive_Images_Phase1_First_ClickTime
##  1:                                     NA
##  2:                                     NA
##  3:                                     NA
##  4:                                     NA
##  5:                                     NA
##  6:                                     NA
##  7:                                     NA
##  8:                                     NA
##  9:                                     NA
## 10:                                     NA
## 11:                                     NA
## 12:                                     NA
## 13:                                     NA
## 14:                                     NA
## 15:                                     NA
## 16:                                     NA
## 17:                                     NA
## 18:                                     NA
## 19:                                     NA
## 20:                                     NA
##     Positive_Images_Phase1_Last_ClickTime Positive_Images_Phase1_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
##  9:                                    NA                                NA
## 10:                                    NA                                NA
## 11:                                    NA                                NA
```

```
## 12:                                    NA                                    NA
## 13:                                    NA                                    NA
## 14:                                    NA                                    NA
## 15:                                    NA                                    NA
## 16:                                    NA                                    NA
## 17:                                    NA                                    NA
## 18:                                    NA                                    NA
## 19:                                    NA                                    NA
## 20:                                    NA                                    NA
##     Positive_Images_Phase1_NumClicks Q47 Positive_Images_Phase2_First_ClickTime
##  1:                                NA  NA                                    NA
##  2:                                NA  NA                                    NA
##  3:                                NA  NA                                    NA
##  4:                                NA  NA                                    NA
##  5:                                NA  NA                                    NA
##  6:                                NA  NA                                    NA
##  7:                                NA  NA                                    NA
##  8:                                NA  NA                                    NA
##  9:                                NA  NA                                    NA
## 10:                                NA  NA                                    NA
## 11:                                NA  NA                                    NA
## 12:                                NA  NA                                    NA
## 13:                                NA  NA                                    NA
## 14:                                NA  NA                                    NA
## 15:                                NA  NA                                    NA
## 16:                                NA  NA                                    NA
## 17:                                NA  NA                                    NA
## 18:                                NA  NA                                    NA
## 19:                                NA  NA                                    NA
## 20:                                NA  NA                                    NA
##     Positive_Images_Phase2_Last_ClickTime Positive_Images_Phase2_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
##  9:                                    NA                                NA
## 10:                                    NA                                NA
## 11:                                    NA                                NA
## 12:                                    NA                                NA
## 13:                                    NA                                NA
## 14:                                    NA                                NA
## 15:                                    NA                                NA
## 16:                                    NA                                NA
## 17:                                    NA                                NA
## 18:                                    NA                                NA
## 19:                                    NA                                NA
## 20:                                    NA                                NA
##     Positive_Images_Phase2_NumClicks Q46 Negative_Images_Phase1_First_ClickTime
##  1:                                NA  NA                                    NA
##  2:                                NA  NA                                    NA
```

```
##  3:                                NA  NA                                    NA
##  4:                                NA  NA                                    NA
##  5:                                NA  NA                                    NA
##  6:                                NA  NA                                    NA
##  7:                                NA  NA                                    NA
##  8:                                NA  NA                                    NA
##  9:                                NA  NA                                    NA
## 10:                                NA  NA                                    NA
## 11:                                NA  NA                                    NA
## 12:                                NA  NA                                    NA
## 13:                                NA  NA                                    NA
## 14:                                NA  NA                                    NA
## 15:                                NA  NA                                    NA
## 16:                                NA  NA                                    NA
## 17:                                NA  NA                                    NA
## 18:                                NA  NA                                    NA
## 19:                                NA  NA                                    NA
## 20:                                NA  NA                                    NA
##     Negative_Images_Phase1_Last_ClickTime Negative_Images_Phase1_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
##  9:                                    NA                                NA
## 10:                                    NA                                NA
## 11:                                    NA                                NA
## 12:                                    NA                                NA
## 13:                                    NA                                NA
## 14:                                    NA                                NA
## 15:                                    NA                                NA
## 16:                                    NA                                NA
## 17:                                    NA                                NA
## 18:                                    NA                                NA
## 19:                                    NA                                NA
## 20:                                    NA                                NA
##     Negative_Images_Phase1_NumClicks Q48 Negative_Images_Phase2_First_ClickTime
##  1:                                NA  NA                                    NA
##  2:                                NA  NA                                    NA
##  3:                                NA  NA                                    NA
##  4:                                NA  NA                                    NA
##  5:                                NA  NA                                    NA
##  6:                                NA  NA                                    NA
##  7:                                NA  NA                                    NA
##  8:                                NA  NA                                    NA
##  9:                                NA  NA                                    NA
## 10:                                NA  NA                                    NA
## 11:                                NA  NA                                    NA
## 12:                                NA  NA                                    NA
## 13:                                NA  NA                                    NA
## 14:                                NA  NA                                    NA
```

```
## 15:                                NA  NA                                    NA
## 16:                                NA  NA                                    NA
## 17:                                NA  NA                                    NA
## 18:                                NA  NA                                    NA
## 19:                                NA  NA                                    NA
## 20:                                NA  NA                                    NA
##     Negative_Images_Phase2_Last_ClickTime Negative_Images_Phase2_SubmitTime
##  1:                                    NA                                NA
##  2:                                    NA                                NA
##  3:                                    NA                                NA
##  4:                                    NA                                NA
##  5:                                    NA                                NA
##  6:                                    NA                                NA
##  7:                                    NA                                NA
##  8:                                    NA                                NA
##  9:                                    NA                                NA
## 10:                                    NA                                NA
## 11:                                    NA                                NA
## 12:                                    NA                                NA
## 13:                                    NA                                NA
## 14:                                    NA                                NA
## 15:                                    NA                                NA
## 16:                                    NA                                NA
## 17:                                    NA                                NA
## 18:                                    NA                                NA
## 19:                                    NA                                NA
## 20:                                    NA                                NA
##     Negative_Images_Phase2_NumClicks Total_Score Random ID Assignment Q1_Score
##  1:                               NA          17     49512      FL_17        1
##  2:                               NA          14     34170      FL_17        0
##  3:                               NA          14     66395      FL_17        0
##  4:                               NA           8     45822      FL_17        1
##  5:                               NA          24     67539      FL_17        1
##  6:                               NA          15     37782      FL_17        1
##  7:                               NA          11     34338      FL_17        1
##  8:                               NA          18     17606      FL_17        1
##  9:                               NA          21     49995      FL_17        1
## 10:                               NA          15     86191      FL_17        1
## 11:                               NA          12     76548      FL_17        0
## 12:                               NA          17     81560      FL_17        1
## 13:                               NA          16     58819      FL_17        0
## 14:                               NA          18     35307      FL_17        1
## 15:                               NA          16     84521      FL_17        1
## 16:                               NA          19     83633      FL_17        1
## 17:                               NA          19     69460      FL_17        1
## 18:                               NA          16     96416      FL_17        1
## 19:                               NA          16     77113      FL_17        0
## 20:                               NA          17     26300      FL_17        1
##     Q2_Score Q3_Score Q4_Score Q5_Score Q6_Score Q7_Score Q8_Score Q9_Score
##  1:        0        0        1        0        0        0        0        1
##  2:        0        1        1        0        1        1        0        1
##  3:        1        0        0        0        1        1        0        1
##  4:        0        0        1        0        1        0        0        0
##  5:        1        1        1        0        1        1        1        1
```

```
##  6:        0        1        0        1        0        0        1        1
##  7:        0        0        1        1        1        0        0        0
##  8:        1        1        0        0        0        0        1        1
##  9:        0        1        0        0        1        1        0        1
## 10:        0        0        1        1        1        1        1        1
## 11:        1        0        1        1        1        1        0        0
## 12:        1        1        0        0        1        1        1        1
## 13:        0        1        1        0        1        1        0        1
## 14:        1        1        1        0        1        1        1        1
## 15:        0        1        0        0        1        0        1        1
## 16:        1        1        1        0        1        1        1        1
## 17:        0        0        1        1        0        1        1        0
## 18:        1        1        1        0        0        0        1        0
## 19:        0        1        1        0        1        1        0        1
## 20:        1        0        1        1        1        0        1        0
##     Q10_Score Q11_Score Q12_Score Q13_Score Q14_Score Q15_Score Q16_Score
##  1:         0         1         1         0         0         0         0
##  2:         0         1         0         0         1         0         0
##  3:         1         0         0         0         1         1         0
##  4:         0         0         0         0         1         1         0
##  5:         0         1         1         0         1         0         1
##  6:         1         0         1         0         0         1         0
##  7:         0         0         0         0         1         0         0
##  8:         0         1         1         0         0         1         0
##  9:         1         1         0         0         1         0         0
## 10:         1         0         0         0         1         1         0
## 11:         0         0         0         0         1         1         0
## 12:         1         0         0         0         0         1         0
## 13:         0         1         0         0         1         0         0
## 14:         1         0         1         0         1         0         0
## 15:         0         0         0         0         0         1         0
## 16:         0         1         1         0         0         0         0
## 17:         0         1         1         0         0         0         1
## 18:         1         0         1         0         0         1         1
## 19:         0         1         1         0         1         0         0
## 20:         0         0         1         0         1         1         1
##     Q17_Score Q18_Score Q19_Score Q20_Score Q21_Score Q22_Score Q23_Score
##  1:         1         1         1         1         1         0         1
##  2:         1         0         1         0         0         0         1
##  3:         0         1         1         1         0         0         1
##  4:         0         0         0         0         1         0         0
##  5:         1         1         0         1         1         1         1
##  6:         0         1         1         1         1         0         0
##  7:         0         0         0         1         0         1         0
##  8:         1         1         1         1         1         0         0
##  9:         1         1         1         1         1         1         1
## 10:         0         0         0         0         1         0         0
## 11:         0         0         0         1         1         0         0
## 12:         0         0         0         0         1         0         1
## 13:         1         0         1         0         0         0         1
## 14:         1         0         0         1         0         1         0
## 15:         1         0         0         1         1         0         1
## 16:         0         0         1         1         0         0         1
## 17:         1         0         1         1         0         1         1
```

```
## 18:         0         0         0         1         1         1         0
## 19:         1         0         1         0         0         0         1
## 20:         0         0         0         1         1         1         0
##     Q24_Score Q25_Score Q26_Score Q27_Score Q28_Score Q29_Score Q30_Score
##  1:         1         1         0         0         1         1         1
##  2:         0         1         1         1         1         0         0
##  3:         0         0         1         0         0         0         1
##  4:         0         0         1         0         0         1         0
##  5:         1         1         1         0         1         1         1
##  6:         0         0         0         0         0         1         1
##  7:         0         1         1         1         1         0         0
##  8:         1         1         0         1         0         0         1
##  9:         1         1         1         0         1         1         0
## 10:         1         1         0         1         0         0         1
## 11:         0         0         1         0         1         1         0
## 12:         1         1         0         1         0         1         1
## 13:         1         1         1         1         1         0         0
## 14:         1         0         1         0         1         0         0
## 15:         1         1         0         1         1         0         1
## 16:         1         1         1         1         1         0         0
## 17:         1         1         1         0         1         1         0
## 18:         1         0         1         0         0         1         1
## 19:         0         1         1         1         1         0         0
## 20:         1         0         1         0         0         1         1
##     Assignment_Group TaskPhase1_Score TaskPhase2_Score TaskPhase3_Score
##  1:          Control              0.3              0.6              0.7
##  2:          Control              0.5              0.4              0.5
##  3:          Control              0.5              0.5              0.3
##  4:          Control              0.3              0.2              0.3
##  5:          Control              0.8              0.7              0.9
##  6:          Control              0.6              0.5              0.3
##  7:          Control              0.4              0.2              0.5
##  8:          Control              0.5              0.7              0.5
##  9:          Control              0.6              0.6              0.8
## 10:          Control              0.8              0.2              0.5
## 11:          Control              0.5              0.3              0.4
## 12:          Control              0.8              0.1              0.7
## 13:          Control              0.5              0.4              0.6
## 14:          Control              0.9              0.4              0.4
## 15:          Control              0.5              0.3              0.7
## 16:          Control              0.8              0.4              0.6
## 17:          Control              0.5              0.6              0.7
## 18:          Control              0.6              0.4              0.6
## 19:          Control              0.5              0.5              0.5
## 20:          Control              0.6              0.5              0.6
##     housenumber                  street        city        county      state
##  1:       11124         Westmere Circle      Dallas United States      Texas
##  2:       11124         Westmere Circle      Dallas United States     Kansas
##  3:        3312 Whisper Lakes Boulevard     Orlando United States    Florida
##  4:         312             Mint Street     Chennai         India Tamil Nadu
##  5:         227     North Spring Street Los Angeles United States California
##  6:         312             Mint Street     Chennai         India Tamil Nadu
##  7:         312             Mint Street     Chennai         India Tamil Nadu
##  8:         312             Mint Street     Chennai         India Tamil Nadu
```

```
##  9:         312       Kaval Kara Street     Fontana United States California
## 10:         312             Mint Street     Chennai         India Tamil Nadu
## 11:         312             Mint Street     Chennai         India Tamil Nadu
## 12:         312             Mint Street     Chennai         India Tamil Nadu
## 13:         312             Mint Street     Chennai         India Tamil Nadu
## 14:        3005             Vía Venezia   Henderson United States     Nevada
## 15:       138-1             32nd Avenue     Chennai United States   New York
## 16:         227     North Spring Street Los Angeles United States California
## 17:         227     North Spring Street Los Angeles United States California
## 18:         227     North Spring Street Los Angeles United States California
## 19:         312             Mint Street     Chennai United States     Kansas
## 20:         227     North Spring Street Los Angeles United States California
##        zip       country age_bin edu_bin assign_bin US_Dummy Male_Dummy
##  1:  75230 United States       3       2          1        1          1
##  2:  75230 United States       4       2          1        1          0
##  3:  32837 United States       2       2          1        1          0
##  4: 600003         India       3       2          1        0          1
##  5:  90012 United States       4       2          1        1          0
##  6: 600003         India       3       2          1        0          1
##  7: 600003         India       2       4          1        0          0
##  8: 600003         India       3       2          1        0          1
##  9:  92336 United States       2       4          1        1          1
## 10: 600003         India       2       4          1        0          0
## 11: 600003         India       1       2          1        0          1
## 12: 600003         India       1       2          1        0          1
## 13: 600003         India       2       2          1        0          1
## 14:  89052 United States       2       4          1        1          1
## 15:  11354 United States       2       2          1        1          0
## 16:  90012 United States       4       4          1        1          1
## 17:  90012 United States       4       4          1        1          1
## 18:  90012 United States       5       2          1        1          1
## 19: 600003 United States       5       2          1        1          1
## 20:  90012 United States       5       2          1        1          0
##     Treatment_Dummy score_phase2_3 Self_Reflect_Dummy Med_Feedback_Dummy
##  1:               0            0.6                  0                  0
##  2:               0            0.4                  0                  0
##  3:               0            0.5                  0                  0
##  4:               0            0.2                  0                  0
##  5:               0            0.7                  0                  0
##  6:               0            0.5                  0                  0
##  7:               0            0.2                  0                  0
##  8:               0            0.7                  0                  0
##  9:               0            0.6                  0                  0
## 10:               0            0.2                  0                  0
## 11:               0            0.3                  0                  0
## 12:               0            0.1                  0                  0
## 13:               0            0.4                  0                  0
## 14:               0            0.4                  0                  0
## 15:               0            0.3                  0                  0
## 16:               0            0.4                  0                  0
## 17:               0            0.6                  0                  0
## 18:               0            0.4                  0                  0
## 19:               0            0.5                  0                  0
## 20:               0            0.5                  0                  0
```

```
##     Positive_Images_Dummy Negative_Images_Dummy Self_Reflect_Q1_NumWords
##  1:                     0                     0                       NA
##  2:                     0                     0                       NA
##  3:                     0                     0                       NA
##  4:                     0                     0                       NA
##  5:                     0                     0                       NA
##  6:                     0                     0                       NA
##  7:                     0                     0                       NA
##  8:                     0                     0                       NA
##  9:                     0                     0                       NA
## 10:                     0                     0                       NA
## 11:                     0                     0                       NA
## 12:                     0                     0                       NA
## 13:                     0                     0                       NA
## 14:                     0                     0                       NA
## 15:                     0                     0                       NA
## 16:                     0                     0                       NA
## 17:                     0                     0                       NA
## 18:                     0                     0                       NA
## 19:                     0                     0                       NA
## 20:                     0                     0                       NA
##     Self_Reflect_Q2_NumWords Control_Phase1_NumWords Control_Phase2_NumWords
##  1:                       NA                       3                       4
##  2:                       NA                       1                       4
##  3:                       NA                       3                       2
##  4:                       NA                       2                       1
##  5:                       NA                       2                       2
##  6:                       NA                       3                       1
##  7:                       NA                       2                       2
##  8:                       NA                       2                       1
##  9:                       NA                       2                       1
## 10:                       NA                       4                       5
## 11:                       NA                       1                       1
## 12:                       NA                       1                       1
## 13:                       NA                       3                       6
## 14:                       NA                       2                       2
## 15:                       NA                       4                       8
## 16:                       NA                       4                       3
## 17:                       NA                       2                       2
## 18:                       NA                       2                       1
## 19:                       NA                       2                       6
## 20:                       NA                       2                       1
```

#Attrition develop EDA where people churn off balance check for attrition

```
d_attrition <- fread('../check-valid-responses/data/qualtrics_results_final.csv')

d_attrition <- d_attrition[(Status == "IP Address") & (Finished != 'True'),]
```

```
d_attrition  #66 rows in total
```

```
##              StartDate             EndDate     Status       IPAddress Progress
##  1: 2020-11-09 20:46:47 2020-11-09 20:47:35 IP Address    45.164.70.26        3
##  2: 2020-11-09 20:48:04 2020-11-09 20:49:16 IP Address  73.202.216.177        3
##  3: 2020-11-09 20:47:18 2020-11-09 20:49:27 IP Address   171.49.199.45       82
##  4: 2020-11-09 20:47:20 2020-11-09 20:48:57 IP Address    43.229.90.17        3
```

```
##  5: 2020-11-09 20:48:59 2020-11-09 20:49:50 IP Address  131.72.189.136        3
##  6: 2020-11-09 20:48:05 2020-11-09 20:49:41 IP Address     27.57.31.83        3
##  7: 2020-11-09 20:49:43 2020-11-09 20:49:59 IP Address  68.100.174.128       83
##  8: 2020-11-09 20:49:01 2020-11-09 20:50:09 IP Address  184.57.164.219       81
##  9: 2020-11-09 20:49:18 2020-11-09 20:52:22 IP Address   73.102.194.37        3
## 10: 2020-11-09 20:47:05 2020-11-09 20:53:07 IP Address  157.49.228.161        3
## 11: 2020-11-09 20:49:32 2020-11-09 20:54:41 IP Address    157.51.41.56        3
## 12: 2020-11-09 20:47:53 2020-11-09 20:54:27 IP Address   32.211.184.80       83
## 13: 2020-11-09 20:47:15 2020-11-09 20:55:15 IP Address  117.213.37.127       90
## 14: 2020-11-09 20:47:13 2020-11-09 20:55:40 IP Address   67.186.182.21       99
## 15: 2020-11-09 20:48:57 2020-11-09 20:55:45 IP Address  122.164.24.219       81
## 16: 2020-11-09 20:51:14 2020-11-09 20:56:35 IP Address  71.136.150.232       82
## 17: 2020-11-09 20:56:02 2020-11-09 20:56:48 IP Address    23.28.225.18        3
## 18: 2020-11-09 20:48:24 2020-11-09 20:57:05 IP Address   76.170.116.29       99
## 19: 2020-11-09 20:47:39 2020-11-09 20:57:33 IP Address   97.89.169.178       92
## 20: 2020-11-09 20:48:02 2020-11-09 20:58:42 IP Address   183.83.27.158       82
## 21: 2020-11-09 20:52:42 2020-11-09 20:58:44 IP Address   122.164.94.28       99
## 22: 2020-11-09 20:47:02 2020-11-09 20:59:23 IP Address  122.174.123.52        3
## 23: 2020-11-09 20:54:28 2020-11-09 21:00:17 IP Address  122.164.71.140       99
## 24: 2020-11-09 20:55:45 2020-11-09 21:00:55 IP Address    76.29.15.158       99
## 25: 2020-11-09 21:00:06 2020-11-09 21:01:39 IP Address  122.164.24.221       81
## 26: 2020-11-09 20:52:19 2020-11-09 21:02:30 IP Address 122.183.166.139       81
## 27: 2020-11-09 20:54:46 2020-11-09 21:03:33 IP Address  122.164.41.106       99
## 28: 2020-11-09 20:47:23 2020-11-09 21:03:51 IP Address   173.22.99.211       99
## 29: 2020-11-09 20:50:08 2020-11-09 21:04:44 IP Address   122.174.207.0       81
## 30: 2020-11-09 20:58:03 2020-11-09 21:05:39 IP Address 122.174.184.152       99
## 31: 2020-11-09 20:52:13 2020-11-09 21:06:11 IP Address  122.164.33.143       99
## 32: 2020-11-09 21:04:12 2020-11-09 21:06:26 IP Address  103.58.116.178       81
## 33: 2020-11-09 20:46:39 2020-11-09 21:06:53 IP Address 122.174.111.210       92
## 34: 2020-11-09 20:47:59 2020-11-09 21:07:25 IP Address  122.183.167.32       81
## 35: 2020-11-09 20:52:05 2020-11-09 21:10:35 IP Address   196.17.65.220       99
## 36: 2020-11-09 20:58:25 2020-11-09 21:13:53 IP Address    157.46.64.80       81
## 37: 2020-11-09 20:59:24 2020-11-09 21:17:02 IP Address  196.19.178.115       82
## 38: 2020-11-09 20:50:04 2020-11-09 21:18:29 IP Address  198.228.135.95       83
## 39: 2020-11-09 21:11:47 2020-11-09 21:19:35 IP Address   63.160.142.52       92
## 40: 2020-11-09 21:11:12 2020-11-09 21:22:16 IP Address   196.17.64.212       99
## 41: 2020-11-09 21:11:28 2020-11-09 21:23:00 IP Address   196.17.65.101       83
## 42: 2020-11-09 21:17:51 2020-11-09 21:23:22 IP Address  122.164.90.125       99
## 43: 2020-11-09 21:17:44 2020-11-09 21:23:37 IP Address 173.217.208.158       99
## 44: 2020-11-09 21:17:30 2020-11-09 21:24:00 IP Address 122.174.107.145       99
## 45: 2020-11-09 21:17:34 2020-11-09 21:25:23 IP Address  171.49.218.150       99
## 46: 2020-11-09 21:17:48 2020-11-09 21:26:01 IP Address  122.174.225.43       99
## 47: 2020-11-09 21:17:38 2020-11-09 21:26:58 IP Address  122.174.123.21       99
## 48: 2020-11-09 21:18:06 2020-11-09 21:27:11 IP Address  122.174.84.227       99
## 49: 2020-11-09 21:14:56 2020-11-09 21:27:13 IP Address  122.164.24.244       81
## 50: 2020-11-09 21:19:02 2020-11-09 21:27:39 IP Address  171.61.242.198       99
## 51: 2020-11-09 21:19:13 2020-11-09 21:27:52 IP Address  122.174.86.195       99
## 52: 2020-11-09 20:48:01 2020-11-09 21:31:31 IP Address  209.58.147.239       99
## 53: 2020-11-09 20:52:51 2020-11-09 21:34:26 IP Address   138.59.206.16       99
## 54: 2020-11-09 21:33:18 2020-11-09 21:37:31 IP Address    196.17.65.65       99
## 55: 2020-11-09 21:27:48 2020-11-09 21:42:54 IP Address   71.197.114.48        3
## 56: 2020-11-09 21:40:27 2020-11-09 21:46:29 IP Address    76.170.206.6       92
## 57: 2020-11-09 21:39:20 2020-11-09 22:04:59 IP Address   196.17.64.142       92
## 58: 2020-11-09 22:24:06 2020-11-09 22:26:02 IP Address    63.75.251.85       81
```

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## 59: 2020-11-09 20:47:34 2020-11-09 23:53:56 IP Address    196.17.67.25        3
## 60: 2020-11-09 21:15:21 2020-11-10 07:13:34 IP Address   103.58.65.150       84
## 61: 2020-11-09 20:49:47 2020-11-10 10:32:39 IP Address  73.189.183.209        3
## 62: 2020-11-12 17:54:36 2020-11-12 17:58:37 IP Address    45.144.80.95       83
## 63: 2020-11-12 17:50:36 2020-11-12 18:01:17 IP Address    23.120.223.8       99
## 64: 2020-11-12 19:39:25 2020-11-12 19:47:55 IP Address  134.202.32.186       92
## 65: 2020-11-12 19:17:26 2020-11-12 19:52:48 IP Address 198.228.144.199        3
## 66: 2020-11-12 19:52:34 2020-11-12 20:10:38 IP Address 198.228.137.228       99
##               StartDate             EndDate     Status       IPAddress Progress
##     Duration (in seconds) Finished        RecordedDate        ResponseId
##  1:                    47    False 2020-11-16 20:47:35 R_2SDNeE261v2UjAN
##  2:                    71    False 2020-11-16 20:49:22 R_Q4J1JUmf0M4CKSl
##  3:                   128    False 2020-11-16 20:49:28 R_w5izLri4BrqWwtX
##  4:                    96    False 2020-11-16 20:49:38 R_3oT7Jto67kIXLWC
##  5:                    50    False 2020-11-16 20:49:51 R_2WZqTKWDk3OomZk
##  6:                    95    False 2020-11-16 20:50:03 R_1IydGNcUlDu2APl
##  7:                    15    False 2020-11-16 20:50:12 R_RkLUCW7VwKpc5ih
##  8:                    68    False 2020-11-16 20:50:16 R_3j73Ns3BhV5UX6z
##  9:                   183    False 2020-11-16 20:52:45 R_3KZppvxHex5FIUU
## 10:                   362    False 2020-11-16 20:53:25 R_Q9vXKkogWnogt5D
## 11:                   309    False 2020-11-16 20:54:43 R_x6kUEycYzhRcECd
## 12:                   393    False 2020-11-16 20:54:59 R_1nVJxdL33fDG5Lw
## 13:                   480    False 2020-11-16 20:55:22 R_1PTLNWh1UHBzAmA
## 14:                   507    False 2020-11-16 20:55:44 R_2dJSrzkds8wRsCe
## 15:                   407    False 2020-11-16 20:55:46 R_1IY5LftRjoKqHFY
## 16:                   321    False 2020-11-16 20:56:47 R_1iljZUPjX3OMHtt
## 17:                    46    False 2020-11-16 20:56:58 R_rkUzSM4OmYBbsgF
## 18:                   520    False 2020-11-16 20:57:05 R_4SmkbW5XRFAWbpD
## 19:                   593    False 2020-11-16 20:57:55 R_bvVDDgWsuFShMyZ
## 20:                   640    False 2020-11-16 20:58:49 R_3kNVbOOOTJWCZoc
## 21:                   362    False 2020-11-16 20:58:50 R_3hyaDP1GSmhvfuh
## 22:                   741    False 2020-11-16 20:59:32 R_3FR03xu5zyOsRSU
## 23:                   349    False 2020-11-16 21:00:33 R_xouj1FIClg6jTPP
## 24:                   310    False 2020-11-16 21:01:12 R_3qwgdOOOqTIc7HR
## 25:                    92    False 2020-11-16 21:01:52 R_3dPTEX57Vul1J09
## 26:                   611    False 2020-11-16 21:02:35 R_2TTWLtEY3mSk3IC
## 27:                   526    False 2020-11-16 21:03:36 R_1EQL6SGJtvwjJ1T
## 28:                   988    False 2020-11-16 21:04:28 R_1AJotTR0h9HLUhr
## 29:                   876    False 2020-11-16 21:04:50 R_1lttXocY7lzHpjV
## 30:                   455    False 2020-11-16 21:05:41 R_udNclGEvTpOFcSR
## 31:                   837    False 2020-11-16 21:06:18 R_vPH5uXe9M0dH9q9
## 32:                   133    False 2020-11-16 21:06:29 R_33xwvYAeYga73cl
## 33:                  1214    False 2020-11-16 21:07:08 R_1qdPqIrO275Ebv2
## 34:                  1166    False 2020-11-16 21:07:26 R_1FlU8KUbKnkYkvn
## 35:                  1109    False 2020-11-16 21:10:41 R_DiP3SaXkMpYIubf
## 36:                   928    False 2020-11-16 21:14:08 R_2YlFsIOKVzn5DWc
## 37:                  1058    False 2020-11-16 21:17:35 R_2CsldpIl35etd5J
## 38:                  1704    False 2020-11-16 21:18:36 R_Rw53IV1YZLkkBZn
## 39:                   468    False 2020-11-16 21:19:48 R_2aS0JeqJFvuBEoL
## 40:                   663    False 2020-11-16 21:23:08 R_2QnYm4BAYir1qX4
## 41:                   691    False 2020-11-16 21:23:08 R_3F35ytDpmw3uPK7
## 42:                   331    False 2020-11-16 21:23:32 R_ve03h4e8P8Gujbb
## 43:                   353    False 2020-11-16 21:24:15 R_3stwj651yfJ9A87
## 44:                   389    False 2020-11-16 21:24:34 R_a4t4DcOSS94pEsN
```

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## 45:                   468    False 2020-11-16 21:25:41 R_TbJSk0rp1iP75ol
## 46:                   493    False 2020-11-16 21:26:05 R_1M6W2YYOTc4eaue
## 47:                   559    False 2020-11-16 21:26:59 R_3oMkCeC39jSeWJh
## 48:                   544    False 2020-11-16 21:27:16 R_1dmOjHhIDR1MEza
## 49:                   736    False 2020-11-16 21:27:17 R_rkgTr1CBUAdl7pv
## 50:                   516    False 2020-11-16 21:28:17 R_1hHntIeSdFTxpeg
## 51:                   519    False 2020-11-16 21:28:18 R_1BXEWVVPK1w3nEp
## 52:                  2610    False 2020-11-16 21:31:31 R_1DTKKAxs83eTI75
## 53:                  2495    False 2020-11-16 21:34:42 R_2v9b49qHALd90Lg
## 54:                   253    False 2020-11-16 21:38:16 R_2s5Q2SCOP8hPzJp
## 55:                   906    False 2020-11-16 21:43:00 R_28MNMoIPEZ43KMW
## 56:                   362    False 2020-11-16 21:46:35 R_2qrfehXdsCIcYRn
## 57:                  1539    False 2020-11-16 22:05:07 R_2EuBc6WCd8133Ju
## 58:                   115    False 2020-11-16 22:26:40 R_1rGpPJ4O2OvjNdV
## 59:                 11181    False 2020-11-16 23:54:27 R_2b3I6sN659gwPT1
## 60:                 35893    False 2020-11-17 07:13:43 R_1gzGQ8V07UuKO5q
## 61:                 49371    False 2020-11-17 10:32:57 R_3es3e7pYuh6Krx1
## 62:                   241    False 2020-11-19 17:58:39 R_24eED9g7fYq5GsQ
## 63:                   640    False 2020-11-19 18:01:22 R_3hltksmfaDfkXVK
## 64:                   509    False 2020-11-19 19:48:22 R_yImHRpq0Qheg5tn
## 65:                  2122    False 2020-11-19 19:53:35 R_2BrGn939bxG79R8
## 66:                  1084    False 2020-11-19 20:11:07 R_1n0dp48Z3CkVf2j
##     Duration (in seconds) Finished        RecordedDate        ResponseId
##     RecipientLastName RecipientFirstName RecipientEmail ExternalReference
##  1:
##  2:
##  3:
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## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     RecipientLastName RecipientFirstName RecipientEmail ExternalReference
##     LocationLatitude LocationLongitude DistributionChannel UserLanguage
##  1:                                                anonymous           EN
##  2:                                                anonymous           EN
##  3:                                                anonymous           EN
##  4:                                                anonymous           EN
##  5:                                                anonymous           EN
##  6:                                                anonymous           EN
##  7:                                                anonymous           EN
##  8:                                                anonymous           EN
##  9:                                                anonymous           EN
## 10:                                                anonymous           EN
## 11:                                                anonymous           EN
## 12:                                                anonymous           EN
## 13:                                                anonymous           EN
## 14:                                                anonymous           EN
## 15:                                                anonymous           EN
## 16:                                                anonymous           EN
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## 17:                                                anonymous           EN
## 18:                                                anonymous           EN
## 19:                                                anonymous           EN
## 20:                                                anonymous           EN
## 21:                                                anonymous           EN
## 22:                                                anonymous           EN
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## 27:                                                anonymous           EN
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## 31:                                                anonymous           EN
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## 63:                                                anonymous           EN
## 64:                                                anonymous           EN
## 65:                                                anonymous           EN
## 66:                                                anonymous           EN
##     LocationLatitude LocationLongitude DistributionChannel UserLanguage
##     Amazon_Turk_ID Gender Q82_3_TEXT Age_Range           Education_Level
##  1:        tuturtu   Male                25-34        Associate's degree
##  2: A1CD7O60QAQQRT Female                45-54         Bachelor's degree
```

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##  3: A16U186WXJXIWR Female              25-34 Master's degree and above
##  4: A26RPQDD0RQEHL   Male              45-54 Master's degree and above
##  5: A3FLBC6LC5GJ3W   Male              18-24              High school
##  6: A1Z3GFH6MNSU46   Male              25-34         Bachelor's degree
##  7:             55 Female            Above 65          Some high school
##  8: A1E77HZO63E334   Male              25-34         Bachelor's degree
##  9: A2BUHMLNE3LUU0   Male              45-54         Bachelor's degree
## 10:  AE7NJG0KOVZYJ   Male              25-34         Bachelor's degree
## 11:  A8F6JFG0WSELT   Male              25-34         Bachelor's degree
## 12: A2G33UKP99NVLM Female              25-34         Bachelor's degree
## 13: A2JAMNGL6SDAHQ Female              18-24         Bachelor's degree
## 14: A2UEY5LEXZ1I4O Female              18-24         Bachelor's degree
## 15: A3EZOHO7TSDAPW   Male              18-24         Bachelor's degree
## 16: A37OUZOGQKGMW0 Female            Above 65        Associate's degree
## 17: A3QLKLIQW1B1FR   Male              45-54 Master's degree and above
## 18: ljgeogioe65485 Female              25-34         Bachelor's degree
## 19: A2X9TBFKHY1S30 Female              45-54         Bachelor's degree
## 20:  AMCR54ZV0SO0C   Male              45-54              High school
## 21: A1KIAFYTOPEV2T   Male              35-44         Bachelor's degree
## 22: A2XIHO2W7EEP32   Male              25-34         Bachelor's degree
## 23: A2NDVK0A3U7GWY   Male              35-44         Bachelor's degree
## 24: A2IGIOD74EPOEF   Male              45-54         Bachelor's degree
## 25: A2PYXFVGNJPPX0 Female              25-34         Bachelor's degree
## 26:  ADLZLGHKOAEE6   Male              25-34         Bachelor's degree
## 27: A1G1PUPGA9IB7J   Male              25-34         Bachelor's degree
## 28: A3GMRPF5MCQVGV Female              35-44              Trade school
## 29: A3TUMZ954ORSUC Female              25-34         Bachelor's degree
## 30:  AT13O9Y4E9RUV   Male              25-34 Master's degree and above
## 31: A1IOMFFEKCWOIT Female              25-34         Bachelor's degree
## 32: A2N2V517FVOBVZ   Male              25-34         Bachelor's degree
## 33:  A5LYLHG880ABE   Male              18-24         Bachelor's degree
## 34: A1CF1W8CP0DHB0   Male              25-34         Bachelor's degree
## 35:  AIEQANG943IW8   Male              45-54         Bachelor's degree
## 36: A30LQHOQAW6PHR Female              18-24 Master's degree and above
## 37: A30UIAS4T183WO Female              18-24         Bachelor's degree
## 38: A2K0LZ7BB15AIU   Male              45-54         Bachelor's degree
## 39: A2WP71VTV1F1DV Female              55-64         Bachelor's degree
## 40: A2NS28ESX9EMJV Female              35-44 Master's degree and above
## 41: A2RQKVTQKESIW6   Male              55-64         Bachelor's degree
## 42: A2PDEHYI2M81EC   Male              35-44         Bachelor's degree
## 43: A2WJMGV0HKQG3Z Female            Above 65              Trade school
## 44: A18WFPSLFV4FKY   Male              25-34 Master's degree and above
## 45:  AJ1Q54P37KT5R   Male              25-34        Associate's degree
## 46:  AYZX9T7RBX3ZP   Male              25-34         Bachelor's degree
## 47: A1GMYDH5MKN105   Male              25-34 Master's degree and above
## 48:  A8H1AW1NWPMAJ Female              25-34        Associate's degree
## 49: A3QI1RV4HQ9MOC   Male              25-34         Bachelor's degree
## 50: A2B0DHIYXB7647 Female              25-34        Associate's degree
## 51: A2MH5LSEGJZAXF   Male              25-34        Associate's degree
## 52: A11NPRAGI18E8C Female              35-44         Bachelor's degree
## 53: A1R5501S7ARLU3   Male              35-44         Bachelor's degree
## 54:  AS11GF9V8TFC4   Male              55-64         Bachelor's degree
## 55:  AQ9Y6WD8O72ZC Female              25-34              High school
## 56: A2H35TTUCSQBV9 Female              25-34 Master's degree and above
```

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## 57: A39AAWF3F8OM6Q   Male                45-54         Bachelor's degree
## 58:  AZM8T1CY97NCA   Male                35-44         Bachelor's degree
## 59:  A9K6IVBAOJ1CX   Male                35-44         Bachelor's degree
## 60: A36XG2BJZH6ZKJ   Male                25-34         Bachelor's degree
## 61: A1YSYI926BBOHW   Male                35-44         Bachelor's degree
## 62: A1H198MRIM37T1   Male                35-44         Bachelor's degree
## 63: A1D3AAS91UOUBY   Male                25-34              High school
## 64: A2UR8ZKKO51K5N Female                25-34 Master's degree and above
## 65: A2J5BRQ88W745H Female                45-54         Bachelor's degree
## 66: A1JS2USVLH2VKR   Male                35-44         Bachelor's degree
##     Amazon_Turk_ID Gender Q82_3_TEXT Age_Range           Education_Level
##             Q1        Q2        Q3        Q4        Q5        Q6        Q7
##  1:
##  2:
##  3: Pneumonia    Normal Pneumonia    Normal Pneumonia Pneumonia    Normal
##  4:
##  5:
##  6:
##  7:    Normal Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia
##  8:    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia
##  9:
## 10:
## 11:
## 12:    Normal Pneumonia Pneumonia    Normal Pneumonia    Normal Pneumonia
## 13:    Normal Pneumonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 14:    Normal    Normal    Normal Pneumonia    Normal    Normal Pneumonia
## 15: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 16:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 17:
## 18: Pneumonia Pneumonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 19: Pneumonia    Normal    Normal    Normal    Normal    Normal    Normal
## 20:    Normal    Normal Pneumonia    Normal    Normal Pneumonia Pneumonia
## 21:    Normal Pneumonia    Normal Pneumonia Pneumonia    Normal    Normal
## 22:
## 23:    Normal    Normal Pneumonia    Normal    Normal    Normal Pneumonia
## 24:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 25:    Normal    Normal    Normal    Normal    Normal Pneumonia Pneumonia
## 26: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 27:    Normal Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
## 28:    Normal    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 29: Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia Pneumonia
## 30:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 31: Pneumonia Pneumonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 32:    Normal Pneumonia Pneumonia    Normal    Normal    Normal    Normal
## 33:    Normal    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
## 34: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 35: Pneumonia Pneumonia    Normal Pneumonia Pneumonia    Normal    Normal
## 36:    Normal Pneumonia    Normal Pneumonia Pneumonia Pneumonia Pneumonia
## 37: Pneumonia Pneumonia Pneumonia    Normal    Normal    Normal    Normal
## 38:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 39:    Normal Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia
## 40:    Normal    Normal Pneumonia Pneumonia    Normal Pneumonia    Normal
## 41: Pneumonia    Normal Pneumonia Pneumonia Pneumonia    Normal Pneumonia
## 42:    Normal Pneumonia    Normal Pneumonia Pneumonia    Normal    Normal
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## 43: Pneumonia Pneumonia    Normal    Normal    Normal    Normal Pneumonia
## 44:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 45:    Normal    Normal    Normal    Normal    Normal    Normal Pneumonia
## 46: Pneumonia Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
## 47:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 48:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 49:    Normal    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 50:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 51:    Normal    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia
## 52:    Normal Pneumonia Pneumonia    Normal Pneumonia    Normal    Normal
## 53:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 54: Pneumonia Pneumonia    Normal    Normal Pneumonia    Normal    Normal
## 55:
## 56:    Normal    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia
## 57:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 58:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 59:
## 60:    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia    Normal
## 61:
## 62:    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 63:    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 64: Pneumonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 65:
## 66: Pneumonia    Normal Pneumonia    Normal    Normal    Normal Pneumonia
##            Q1        Q2        Q3        Q4        Q5        Q6        Q7
##            Q8        Q9       Q10
##  1:
##  2:
##  3:    Normal Pneumonia Pneumonia
##  4:
##  5:
##  6:
##  7: Pneumonia    Normal    Normal
##  8:    Normal Pneumonia    Normal
##  9:
## 10:
## 11:
## 12:    Normal Pneumonia    Normal
## 13:    Normal Pneumonia    Normal
## 14:    Normal Pneumonia Pneumonia
## 15: Pneumonia Pneumonia Pneumonia
## 16:    Normal Pneumonia    Normal
## 17:
## 18: Pneumonia Pneumonia Pneumonia
## 19:    Normal    Normal    Normal
## 20:    Normal Pneumonia    Normal
## 21: Pneumonia    Normal Pneumonia
## 22:
## 23:    Normal    Normal    Normal
## 24:    Normal    Normal    Normal
## 25: Pneumonia Pneumonia    Normal
## 26: Pneumonia Pneumonia Pneumonia
## 27:    Normal    Normal Pneumonia
## 28:    Normal Pneumonia    Normal
```

```
## 29:    Normal Pneumonia    Normal
## 30:    Normal Pneumonia    Normal
## 31: Pneumonia    Normal Pneumonia
## 32: Pneumonia    Normal    Normal
## 33:    Normal    Normal    Normal
## 34: Pneumonia Pneumonia Pneumonia
## 35: Pneumonia    Normal Pneumonia
## 36:    Normal Pneumonia Pneumonia
## 37: Pneumonia Pneumonia    Normal
## 38:    Normal Pneumonia Pneumonia
## 39:    Normal Pneumonia    Normal
## 40: Pneumonia Pneumonia    Normal
## 41: Pneumonia    Normal Pneumonia
## 42:    Normal    Normal    Normal
## 43: Pneumonia Pneumonia    Normal
## 44:    Normal    Normal    Normal
## 45:    Normal Pneumonia    Normal
## 46:    Normal    Normal Pneumonia
## 47:    Normal    Normal    Normal
## 48:    Normal    Normal    Normal
## 49:    Normal Pneumonia    Normal
## 50:    Normal Pneumonia    Normal
## 51: Pneumonia    Normal Pneumonia
## 52: Pneumonia    Normal Pneumonia
## 53: Pneumonia    Normal    Normal
## 54: Pneumonia    Normal Pneumonia
## 55:
## 56:    Normal Pneumonia    Normal
## 57:    Normal    Normal    Normal
## 58: Pneumonia    Normal    Normal
## 59:
## 60: Pneumonia Pneumonia Pneumonia
## 61:
## 62:    Normal Pneumonia    Normal
## 63:    Normal Pneumonia    Normal
## 64:    Normal Pneumonia    Normal
## 65:
## 66:    Normal Pneumonia    Normal
##            Q8        Q9       Q10
##
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7: r thoughts on the advertisement? Please answer in two sentences.r thoughts on the advertisement?
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
```

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## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
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## 39:
## 40:
## 41:
## 42:
## 43:
## 44:
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## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##
##     Control_Phase1_First_ClickTime Control_Phase1_Last_ClickTime
```

```
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:                    1.122                    2.399
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:                   70.188                  169.732
## 14:
## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:                   48.297                   82.925
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:
## 43:
## 44:
## 45:                    6.323                   16.745
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:
## 54:
```

```
## 55:
## 56:
## 57:                          23.798                          63.077
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:                          11.266                          69.122
## 64:
## 65:
## 66:                          13.017                         141.784
##     Control_Phase1_First_ClickTime Control_Phase1_Last_ClickTime
##     Control_Phase1_SubmitTime Control_Phase1_NumClicks       Q11       Q12
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:                       6.674                         3
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:                     180.022                         4 Pneumonia    Normal
## 14:                                                       Pneumonia    Normal
## 15:
## 16:
## 17:
## 18:                                                       Pneumonia Pneumonia
## 19:                                                       Pneumonia    Normal
## 20:
## 21:                                                          Normal Pneumonia
## 22:
## 23:                                                          Normal    Normal
## 24:                                                          Normal    Normal
## 25:
## 26:
## 27:                                                          Normal Pneumonia
## 28:                                                       Pneumonia    Normal
## 29:
## 30:                                                          Normal Pneumonia
## 31:                                                       Pneumonia Pneumonia
## 32:
## 33:                                                       Pneumonia Pneumonia
## 34:
## 35:                      84.109                         7    Normal    Normal
## 36:
## 37:
## 38:
## 39:                                                          Normal Pneumonia
## 40:                                                       Pneumonia Pneumonia
```

```
## 41:
## 42:                                                      Normal    Normal
## 43:                                                      Normal    Normal
## 44:                                                      Normal    Normal
## 45:                    86.084                          2    Normal Pneumonia
## 46:                                                      Normal Pneumonia
## 47:                                                      Normal    Normal
## 48:                                                   Pneumonia Pneumonia
## 49:
## 50:                                                      Normal    Normal
## 51:                                                   Pneumonia    Normal
## 52:                                                      Normal    Normal
## 53:                                                      Normal Pneumonia
## 54:                                                      Normal Pneumonia
## 55:
## 56:                                                      Normal    Normal
## 57:                    71.425                          8    Normal    Normal
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:                   138.355                          6    Normal    Normal
## 64:                                                   Pneumonia    Normal
## 65:
## 66:                    144.19                         16    Normal Pneumonia
##     Control_Phase1_SubmitTime Control_Phase1_NumClicks       Q11       Q12
##           Q13       Q14       Q15       Q16       Q17       Q18       Q19
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:    Normal Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia
## 14: Pnuemonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 15:
## 16:
## 17:
## 18: Pnuemonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 19:    Normal    Normal    Normal    Normal Pneumonia    Normal    Normal
## 20:
## 21: Pnuemonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 22:
## 23: Pnuemonia    Normal    Normal    Normal    Normal    Normal    Normal
## 24:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 25:
## 26:
```

```
## 27:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 28: Pnuemonia Pneumonia    Normal    Normal Pneumonia Pneumonia Pneumonia
## 29:
## 30:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 31: Pnuemonia Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
## 32:
## 33: Pnuemonia Pneumonia    Normal    Normal Pneumonia Pneumonia Pneumonia
## 34:
## 35:    Normal Pneumonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 36:
## 37:
## 38:
## 39:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 40: Pnuemonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia Pneumonia
## 41:
## 42:    Normal    Normal    Normal    Normal Pneumonia    Normal Pneumonia
## 43:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 44:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 45:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 46: Pnuemonia    Normal    Normal Pneumonia    Normal    Normal    Normal
## 47:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 48:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 49:
## 50:    Normal    Normal    Normal    Normal    Normal    Normal Pneumonia
## 51: Pnuemonia    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
## 52:    Normal    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 53:    Normal Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
## 54:    Normal    Normal    Normal Pneumonia    Normal Pneumonia    Normal
## 55:
## 56: Pnuemonia    Normal Pneumonia    Normal    Normal    Normal    Normal
## 57:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 58:
## 59:
## 60:
## 61:
## 62:
## 63: Pnuemonia Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia
## 64: Pnuemonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 65:
## 66: Pnuemonia    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia
##           Q13       Q14       Q15       Q16       Q17       Q18       Q19
##           Q20
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
```

```
## 13:    Normal
## 14: Pneumonia
## 15:
## 16:
## 17:
## 18: Pneumonia
## 19:    Normal
## 20:
## 21: Pneumonia
## 22:
## 23:    Normal
## 24:    Normal
## 25:
## 26:
## 27:    Normal
## 28: Pneumonia
## 29:
## 30: Pneumonia
## 31:    Normal
## 32:
## 33: Pneumonia
## 34:
## 35: Pneumonia
## 36:
## 37:
## 38:
## 39:    Normal
## 40: Pneumonia
## 41:
## 42: Pneumonia
## 43:    Normal
## 44:    Normal
## 45: Pneumonia
## 46:    Normal
## 47:    Normal
## 48:    Normal
## 49:
## 50:    Normal
## 51:    Normal
## 52:    Normal
## 53:    Normal
## 54:    Normal
## 55:
## 56:    Normal
## 57:    Normal
## 58:
## 59:
## 60:
## 61:
## 62:
## 63: Pneumonia
## 64: Pneumonia
## 65:
## 66:    Normal
```

```
##           Q20
##
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
## 15:
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## 30:
## 31:
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## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:
## 43:
## 44:
## 45:
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:
```

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## 53:
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63: I don't like this advertisement at all. Pharmaceutical ads have always seemed very counterintuit
## 64:
## 65:
## 66:
##
##     Control_Phase2_First_ClickTime Control_Phase2_Last_ClickTime
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
## 15:
## 16:
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## 18:
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:                           11.77                         90.011
## 36:
## 37:
## 38:
```

```
## 39:
## 40:
## 41:
## 42:
## 43:
## 44:
## 45:                          2.581                         2.581
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:
## 54:
## 55:
## 56:
## 57:                          9.486                        12.895
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:                         57.474                       171.337
## 64:
## 65:
## 66:                          7.469                       154.622
##     Control_Phase2_First_ClickTime Control_Phase2_Last_ClickTime
##     Control_Phase2_SubmitTime Control_Phase2_NumClicks       Q21       Q22
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:                                                      Normal Pneumonia
## 15:
## 16:
## 17:
## 18:                                                   Pneumonia Pneumonia
## 19:
## 20:
## 21:                                                      Normal Pneumonia
## 22:
## 23:                                                      Normal Pneumonia
## 24:                                                      Normal    Normal
```

```
## 25:
## 26:
## 27:                                                    Normal Pneumonia
## 28:                                                 Pneumonia Pneumonia
## 29:
## 30:                                                    Normal Pneumonia
## 31:                                                 Pneumonia    Normal
## 32:
## 33:
## 34:
## 35:                   91.818                        5    Normal    Normal
## 36:
## 37:
## 38:
## 39:
## 40:                                                 Pneumonia Pneumonia
## 41:
## 42:                                                    Normal    Normal
## 43:                                                    Normal    Normal
## 44:                                                    Normal    Normal
## 45:                   78.807                        1 Pneumonia    Normal
## 46:                                                    Normal    Normal
## 47:                                                    Normal    Normal
## 48:                                                    Normal Pneumonia
## 49:
## 50:                                                    Normal    Normal
## 51:                                                    Normal Pneumonia
## 52:                                                    Normal Pneumonia
## 53:                                                    Normal Pneumonia
## 54:                                                 Pneumonia    Normal
## 55:
## 56:
## 57:                   181.397                       5
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:                   173.193                       6    Normal    Normal
## 64:
## 65:
## 66:                   157.267                      21 Pneumonia    Normal
##     Control_Phase2_SubmitTime Control_Phase2_NumClicks       Q21       Q22
##           Q23       Q24       Q25       Q26       Q27       Q28       Q29
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
```

```
## 11:
## 12:
## 13:
## 14:    Normal Pneumonia    Normal Pneumonia    Normal    Normal    Normal
## 15:
## 16:
## 17:
## 18: Pneumonia Pneumonia Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 19:
## 20:
## 21:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 22:
## 23:    Normal    Normal Pneumonia    Normal    Normal    Normal    Normal
## 24:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 25:
## 26:
## 27:    Normal    Normal Pneumonia    Normal    Normal Pneumonia    Normal
## 28: Pneumonia    Normal    Normal    Normal    Normal Pneumonia Pneumonia
## 29:
## 30:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 31: Pneumonia Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 32:
## 33:
## 34:
## 35:    Normal Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 36:
## 37:
## 38:
## 39:
## 40:    Normal    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 41:
## 42: Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia Pneumonia
## 43:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 44:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 45: Pneumonia    Normal    Normal    Normal    Normal    Normal Pneumonia
## 46: Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia    Normal
## 47:    Normal    Normal    Normal    Normal    Normal    Normal    Normal
## 48:    Normal Pneumonia    Normal    Normal Pneumonia    Normal    Normal
## 49:
## 50: Pneumonia    Normal    Normal    Normal    Normal    Normal    Normal
## 51:    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia    Normal
## 52: Pneumonia    Normal Pneumonia    Normal    Normal Pneumonia Pneumonia
## 53:    Normal    Normal Pneumonia    Normal Pneumonia    Normal Pneumonia
## 54: Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63: Pneumonia    Normal Pneumonia Pneumonia    Normal Pneumonia Pneumonia
## 64:
```

```
## 65:
## 66: Pneumonia    Normal    Normal Pneumonia    Normal Pneumonia Pneumonia
##           Q23       Q24       Q25       Q26       Q27       Q28       Q29
##           Q30
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:    Normal
## 15:
## 16:
## 17:
## 18: Pneumonia
## 19:
## 20:
## 21:    Normal
## 22:
## 23: Pneumonia
## 24:    Normal
## 25:
## 26:
## 27: Pneumonia
## 28:    Normal
## 29:
## 30:    Normal
## 31:    Normal
## 32:
## 33:
## 34:
## 35:    Normal
## 36:
## 37:
## 38:
## 39:
## 40: Pneumonia
## 41:
## 42: Pneumonia
## 43:    Normal
## 44:    Normal
## 45:    Normal
## 46: Pneumonia
## 47:    Normal
## 48: Pneumonia
## 49:
## 50:    Normal
```

```
## 51: Pneumonia
## 52:    Normal
## 53: Pneumonia
## 54: Pneumonia
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:    Normal
## 64:
## 65:
## 66:    Normal
##           Q30
##                                                                                              Q36
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
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## 16:
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## 18:
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
```

```
## 37:
## 38:
## 39:  Image 3Correct diagnosis: Pneumonia\nYou chose: ${q://QID6/ChoiceGroup/SelectedChoices}\n
## 40:
## 41:
## 42:
## 43:
## 44: Image 9Correct diagnosis: Pneumonia\nYou chose: ${q://QID20/ChoiceGroup/SelectedChoices}\n
## 45:
## 46:
## 47:
## 48:     Image 2Correct diagnosis: Normal\nYou chose: ${q://QID5/ChoiceGroup/SelectedChoices}\n
## 49:
## 50:  Image 7Correct diagnosis: Pneumonia\nYou chose ${q://QID18/ChoiceGroup/SelectedChoices}\n
## 51:
## 52:
## 53:
## 54:
## 55:
## 56:    Image 5Correct diagnosis: Normal\nYou chose: ${q://QID16/ChoiceGroup/SelectedChoices}\n
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##                                                                                                 Q36
##                                                                                                     Self_
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:
## 22:
```

```
## 23:
## 24:
## 25:
## 26:
## 27:
## 28: Assuming the labels are correct, I correctly identified them all.  Therefore I could not have do
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:
## 43:
## 44:
## 45:
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:                                                                                  good and tech for
## 53:
## 54:
## 55:
## 56:                                                                      in some images i must been hig
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:                                                            Anything further would need training. I
## 63:
## 64:
## 65:
## 66:
##                                                                                                  Self_
##     Self_Reflect_Phase1_First_ClickTime Self_Reflect_Phase1_Last_ClickTime
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
```

```
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:                                1.524                                239.477
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:                                5.744                                 59.953
## 40:
## 41:
## 42:
## 43:
## 44:                                5.661                                 19.329
## 45:
## 46:
## 47:
## 48:                                5.194                                 14.416
## 49:
## 50:                               16.678                                 89.216
## 51:
## 52:                                6.893                                 19.815
## 53:
## 54:
## 55:
## 56:                               33.735                                 118.26
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:                               31.379                                  32.37
```

```
## 63:
## 64:
## 65:
## 66:
##     Self_Reflect_Phase1_First_ClickTime Self_Reflect_Phase1_Last_ClickTime
##     Self_Reflect_Phase1_SubmitTime Self_Reflect_Phase1_NumClicks
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:                         240.018                           118
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:                         219.364                             5
## 40:
## 41:
## 42:
## 43:
## 44:                          94.833                             6
## 45:
## 46:
## 47:
## 48:                         240.122                             3
```

```
## 49:
## 50:                        92.535                            2
## 51:
## 52:                       240.017                            2
## 53:
## 54:
## 55:
## 56:                       138.308                            8
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:                       113.497                            2
## 63:
## 64:
## 65:
## 66:
##     Self_Reflect_Phase1_SubmitTime Self_Reflect_Phase1_NumClicks
##                                                                                                     Q41
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
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## 17:
## 18:
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
```

```
## 35:
## 36:
## 37:
## 38:
## 39:    Image 20Correct diagnosis: Normal\nYou chose: ${q://QID27/ChoiceGroup/SelectedChoices}\n
## 40:
## 41:
## 42:
## 43:
## 44: Image 17Correct diagnosis: Pneumonia\nYou chose: ${q://QID24/ChoiceGroup/SelectedChoices}\n
## 45:
## 46:
## 47:
## 48:       Image 12Correct diagnosis: Normal\nYou chose: ${q://QID9/ChoiceGroup/SelectedChoices}
## 49:
## 50:     Image 19Correct diagnosis: PneumoniaYou chose: ${q://QID26/ChoiceGroup/SelectedChoices}
## 51:
## 52: Image 17Correct diagnosis: Pneumonia\nYou chose: ${q://QID24/ChoiceGroup/SelectedChoices}\n
## 53:
## 54:
## 55:
## 56: Image 14Correct diagnosis: Pneumonia\nYou chose: ${q://QID11/ChoiceGroup/SelectedChoices}\n
## 57:
## 58:
## 59:
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## 64:
## 65:
## 66:
##                                                                                                 Q41
##
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## 19:
## 20:
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## 21:
## 22:
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## 26:
## 27:
## 28: Some of the normal are looking like the ones with pneumonia. While I could have technically done
## 29:
## 30:
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## 63:
## 64:
## 65:
## 66:
##
##     Self_Reflect_Phase2_First_ClickTime Self_Reflect_Phase2_Last_ClickTime
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## 26:
## 27:
## 28:                          1.553                          114.198
## 29:
## 30:
## 31:
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## 35:
## 36:
## 37:
## 38:
## 39:                          5.558                           19.539
## 40:
## 41:
## 42:
## 43:
## 44:                          6.333                            11.82
## 45:
## 46:
## 47:
## 48:                          2.905                            8.984
## 49:
## 50:                          6.115                            8.188
## 51:
## 52:                              0                                0
## 53:
## 54:
## 55:
## 56:                          8.926                           14.603
## 57:
## 58:
## 59:
## 60:
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## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Self_Reflect_Phase2_First_ClickTime Self_Reflect_Phase2_Last_ClickTime
##     Self_Reflect_Phase2_SubmitTime Self_Reflect_Phase2_NumClicks
##  1:
##  2:
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##  5:
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## 19:
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## 24:
## 25:
## 26:
## 27:
## 28:                          116.173                           28
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:                          158.487                            4
## 40:
## 41:
## 42:
## 43:
## 44:                           98.433                            5
## 45:
## 46:
```

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## 47:
## 48:                      99.545                             2
## 49:
## 50:                     103.558                             2
## 51:
## 52:                     240.022                             0
## 53:
## 54:
## 55:
## 56:                      94.976                             3
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Self_Reflect_Phase2_SubmitTime Self_Reflect_Phase2_NumClicks
##                                                                                                          Q38
##  1:
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##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12: Image 6Correct diagnosis: Pneumonia\nYou chose: ${q://QID17/ChoiceGroup/SelectedChoices}\n
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:      Image 10 Correct diagnosis: NormalYou chose: ${q://QID21/ChoiceGroup/SelectedChoices}
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:     Image 1Correct diagnosis: Normal\nYou chose: ${q://QID1/ChoiceGroup/SelectedChoices}\n
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
```

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## 33:      Image 4Correct diagnosis: PneumoniaYou chose: ${q://QID7/ChoiceGroup/SelectedChoices}
## 34:
## 35:
## 36:
## 37:
## 38:     Image 2Correct diagnosis: Normal\nYou chose: ${q://QID5/ChoiceGroup/SelectedChoices}\n
## 39:
## 40:
## 41:
## 42:      Image 10 Correct diagnosis: NormalYou chose: ${q://QID21/ChoiceGroup/SelectedChoices}
## 43:
## 44:
## 45:
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:  Image 3Correct diagnosis: Pneumonia\nYou chose: ${q://QID6/ChoiceGroup/SelectedChoices}\n
## 52:
## 53:
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##                                                                                                 Q38
##     Medical_Feedback_Phase1_First_ClickTime
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:                                12.629
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:                                14.847
```

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## 19:
## 20:
## 21:
## 22:
## 23:
## 24:                                    3.13
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:                                   1.469
## 34:
## 35:
## 36:
## 37:
## 38:                                   16.18
## 39:
## 40:
## 41:                                       0
## 42:                                   0.362
## 43:
## 44:
## 45:
## 46:                                       0
## 47:
## 48:
## 49:
## 50:
## 51:                                   1.684
## 52:
## 53:
## 54:
## 55:
## 56:
## 57:
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## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Medical_Feedback_Phase1_First_ClickTime
##     Medical_Feedback_Phase1_Last_ClickTime Medical_Feedback_Phase1_SubmitTime
##  1:
##  2:
##  3:
##  4:
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##  5:
##  6:
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##  8:
##  9:
## 10:
## 11:
## 12:                    12.629                    240.085
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:                    65.245                     107.49
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:                      3.13                     93.202
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:                    16.183                    241.431
## 34:
## 35:
## 36:
## 37:
## 38:                   165.278                    240.081
## 39:
## 40:
## 41:                         0                    242.446
## 42:                    13.623                    119.581
## 43:
## 44:
## 45:
## 46:                         0                     95.466
## 47:
## 48:
## 49:
## 50:
## 51:                    12.923                    217.893
## 52:
## 53:
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## 55:
## 56:
## 57:
## 58:
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## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Medical_Feedback_Phase1_Last_ClickTime Medical_Feedback_Phase1_SubmitTime
##     Medical_Feedback_Phase1_NumClicks
##  1:
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##  8:
##  9:
## 10:
## 11:
## 12:                                     1
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:                                     5
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:                                     1
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:                                     8
## 34:
## 35:
## 36:
## 37:
## 38:                                    29
## 39:
## 40:
## 41:                                     0
## 42:                                     2
## 43:
## 44:
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## 45:
## 46:                                0
## 47:
## 48:
## 49:
## 50:
## 51:                                6
## 52:
## 53:
## 54:
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## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Medical_Feedback_Phase1_NumClicks
##                                                                                Q43
##  1:
##  2:
##  3:
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##  7:
##  8:
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## 11:
## 12:
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:     Image 16Correct diagnosis: NormalYou chose: ${q://QID23/ChoiceGroup/SelectedChoices}
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:  Image 12Correct diagnosis: Normal\nYou chose: ${q://QID9/ChoiceGroup/SelectedChoices}\n
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
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## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42: Image 20Correct diagnosis: Normal\nYou chose: ${q://QID27/ChoiceGroup/SelectedChoices}\n
## 43:
## 44:
## 45:
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:  Image 13Correct diagnosis: PneumoniaYou chose: ${q://QID10/ChoiceGroup/SelectedChoices}
## 52:
## 53:
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##                                                                                                 Q43
##     Medical_Feedback_Phase2_First_ClickTime
##  1:
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## 15:
## 16:
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## 17:
## 18:                                  24.852
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:                                      0
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:                                      0
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:                                   2.931
## 43:
## 44:
## 45:
## 46:                                      0
## 47:
## 48:
## 49:
## 50:
## 51:                                  12.239
## 52:
## 53:
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Medical_Feedback_Phase2_First_ClickTime
##     Medical_Feedback_Phase2_Last_ClickTime Medical_Feedback_Phase2_SubmitTime
##  1:
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##  3:
##  4:
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## 14:
## 15:
## 16:
## 17:
## 18:                                27.284                                125.988
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:                                    0                                 93.538
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:                                    0                                241.124
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:                                 7.755                                100.644
## 43:
## 44:
## 45:
## 46:                                    0                                116.459
## 47:
## 48:
## 49:
## 50:
## 51:                                12.239                                109.332
## 52:
## 53:
## 54:
## 55:
## 56:
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## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Medical_Feedback_Phase2_Last_ClickTime Medical_Feedback_Phase2_SubmitTime
##     Medical_Feedback_Phase2_NumClicks Q45
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## 16:
## 17:
## 18:                                   2
## 19:
## 20:
## 21:
## 22:
## 23:
## 24:                                   0
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:                                   0
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:                                   2
```

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## 43:
## 44:
## 45:
## 46:                                   0
## 47:
## 48:
## 49:
## 50:
## 51:                                   1
## 52:
## 53:
## 54:
## 55:
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## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Medical_Feedback_Phase2_NumClicks Q45
##     Positive_Images_Phase1_First_ClickTime
##  1:
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## 12:
## 13:
## 14:                                    0.398
## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:                                    2.745
## 22:
## 23:                                    1.861
## 24:
## 25:
## 26:
## 27:                                    8.318
## 28:
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## 29:
## 30:
## 31:
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## 33:
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## 37:
## 38:
## 39:
## 40:                                 23.036
## 41:
## 42:
## 43:
## 44:
## 45:
## 46:
## 47:                                  3.905
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:
## 54:                                  3.409
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:                                  3.443
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Positive_Images_Phase1_First_ClickTime
##     Positive_Images_Phase1_Last_ClickTime Positive_Images_Phase1_SubmitTime
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##  2:
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##  5:
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## 11:
## 12:
## 13:
## 14:                                 6.472                            53.221
```

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## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:                                 2.745                                96.864
## 22:
## 23:                                49.752                                52.884
## 24:
## 25:
## 26:
## 27:                                47.749                                50.406
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:                                  38.5                                47.077
## 41:
## 42:
## 43:
## 44:
## 45:
## 46:
## 47:                                11.385                                46.374
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:
## 54:                                18.705                                54.421
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:                                 3.443                               120.014
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Positive_Images_Phase1_Last_ClickTime Positive_Images_Phase1_SubmitTime
##     Positive_Images_Phase1_NumClicks Q47 Positive_Images_Phase2_First_ClickTime
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##  1:
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##  6:
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##  9:
## 10:
## 11:
## 12:
## 13:
## 14:                                2                                9.494
## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:                                1                                22.18
## 22:
## 23:                                6                                4.094
## 24:
## 25:
## 26:
## 27:                                4                                22.991
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:                                4                                5.707
## 41:
## 42:
## 43:
## 44:
## 45:
## 46:
## 47:                                5                                    0
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:
## 54:                                3                                7.334
```

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## 55:
## 56:
## 57:
## 58:
## 59:
## 60:                                1
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Positive_Images_Phase1_NumClicks Q47 Positive_Images_Phase2_First_ClickTime
##     Positive_Images_Phase2_Last_ClickTime Positive_Images_Phase2_SubmitTime
##  1:
##  2:
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##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:                                23.867                                48.188
## 15:
## 16:
## 17:
## 18:
## 19:
## 20:
## 21:                                 22.18                                51.723
## 22:
## 23:                                 4.094                                  47.1
## 24:
## 25:
## 26:
## 27:                                30.422                                 56.22
## 28:
## 29:
## 30:
## 31:
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:                                 5.707                                55.563
```

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## 41:
## 42:
## 43:
## 44:
## 45:
## 46:
## 47:                                      0                                51.788
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:
## 54:                                  7.334                                52.244
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:
## 65:
## 66:
##     Positive_Images_Phase2_Last_ClickTime Positive_Images_Phase2_SubmitTime
##     Positive_Images_Phase2_NumClicks Q46 Negative_Images_Phase1_First_ClickTime
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:                                  2
## 15:
## 16:
## 17:
## 18:
## 19:                                                                       9.911
## 20:
## 21:                                  1
## 22:
## 23:                                  1
## 24:
## 25:
## 26:
```

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## 27:                                3
## 28:
## 29:
## 30:                                                                  3.064
## 31:                                                                 46.795
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:                                1
## 41:
## 42:
## 43:                                                                 64.527
## 44:
## 45:
## 46:
## 47:                                0
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:                                                                  2.895
## 54:                                1
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:                                                                 25.396
## 65:
## 66:
##     Positive_Images_Phase2_NumClicks Q46 Negative_Images_Phase1_First_ClickTime
##     Negative_Images_Phase1_Last_ClickTime Negative_Images_Phase1_SubmitTime
##  1:
##  2:
##  3:
##  4:
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##  6:
##  7:
##  8:
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## 10:
## 11:
## 12:
```

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## 13:
## 14:
## 15:
## 16:
## 17:
## 18:
## 19:                                16.784                                120.12
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:                                 3.064                                116.301
## 31:                               119.014                                120.105
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:
## 43:                                64.527                                 66.576
## 44:
## 45:
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:                                     5                                120.019
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:                                32.427                                 55.148
## 65:
## 66:
```

```
##     Negative_Images_Phase1_Last_ClickTime Negative_Images_Phase1_SubmitTime
##     Negative_Images_Phase1_NumClicks Q48 Negative_Images_Phase2_First_ClickTime
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:
## 19:                                  2                                  19.215
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:                                  1                                   4.642
## 31:                                  9                                   4.886
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
## 39:
## 40:
## 41:
## 42:
## 43:                                  1                                  34.484
## 44:
## 45:
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:
```

```
## 53:                                2                                3.048
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:                                4                               12.483
## 65:
## 66:
##     Negative_Images_Phase1_NumClicks Q48 Negative_Images_Phase2_First_ClickTime
##     Negative_Images_Phase2_Last_ClickTime Negative_Images_Phase2_SubmitTime
##  1:
##  2:
##  3:
##  4:
##  5:
##  6:
##  7:
##  8:
##  9:
## 10:
## 11:
## 12:
## 13:
## 14:
## 15:
## 16:
## 17:
## 18:
## 19:                               38.245                            48.54
## 20:
## 21:
## 22:
## 23:
## 24:
## 25:
## 26:
## 27:
## 28:
## 29:
## 30:                                4.642                            49.312
## 31:                                7.142                           121.812
## 32:
## 33:
## 34:
## 35:
## 36:
## 37:
## 38:
```

```
## 39:
## 40:
## 41:
## 42:
## 43:                                 57.765                                 70.859
## 44:
## 45:
## 46:
## 47:
## 48:
## 49:
## 50:
## 51:
## 52:
## 53:                                  4.559                                 60.555
## 54:
## 55:
## 56:
## 57:
## 58:
## 59:
## 60:
## 61:
## 62:
## 63:
## 64:                                 12.483                                121.127
## 65:
## 66:
##     Negative_Images_Phase2_Last_ClickTime Negative_Images_Phase2_SubmitTime
##     Negative_Images_Phase2_NumClicks Total_Score Random ID Assignment Q1_Score
##  1:                                                  78619                  0
##  2:                                                  94518                  0
##  3:                                          5       12173      FL_41        0
##  4:                                                  61686                  0
##  5:                                                  89107                  0
##  6:                                                  36197                  0
##  7:                                          5       40128      FL_17        1
##  8:                                          7       79803      FL_14        1
##  9:                                                  63983                  0
## 10:                                                  66745                  0
## 11:                                                  12741                  0
## 12:                                          6       17193      FL_15        1
## 13:                                         17       93923      FL_17        1
## 14:                                         17       27390      FL_16        1
## 15:                                          5       56200      FL_14        0
## 16:                                          9       29689      FL_41        1
## 17:                                                  36480                  0
## 18:                                         16       18098      FL_15        0
## 19:                                  5      11       90426      FL_41        0
## 20:                                          9       48390      FL_41        1
## 21:                                         11       50866      FL_16        1
## 22:                                                  20328                  0
## 23:                                         17       88536      FL_16        1
## 24:                                         15       88031      FL_15        1
```

```
## 25:                                    7     43757      FL_17        1
## 26:                                    5     82797      FL_17        0
## 27:                                   11     90545      FL_16        1
## 28:                                   22     34468      FL_14        1
## 29:                                    6     84216      FL_14        0
## 30:                                1  14     77226      FL_41        1
## 31:                                2  20     17032      FL_41        0
## 32:                                    4     44325      FL_14        1
## 33:                                   13     71018      FL_15        1
## 34:                                    5     64591      FL_14        0
## 35:                                   11     92815      FL_17        0
## 36:                                    6     47617      FL_14        1
## 37:                                    4     59942      FL_16        0
## 38:                                    8     67012      FL_15        1
## 39:                                   10     17527      FL_14        1
## 40:                                   18     59767      FL_16        1
## 41:                                    4     80738      FL_15        0
## 42:                                   17     81074      FL_15        1
## 43:                                5  14     13692      FL_41        0
## 44:                                   15     81700      FL_14        1
## 45:                                   13     14645      FL_17        1
## 46:                                   13     56914      FL_15        0
## 47:                                   15     18729      FL_16        1
## 48:                                   12     43881      FL_14        1
## 49:                                   10     81942      FL_17        1
## 50:                                   19     67952      FL_14        1
## 51:                                   18     71920      FL_15        1
## 52:                                   12     84924      FL_14        1
## 53:                                2  16     71997      FL_41        1
## 54:                                    8     99649      FL_16        0
## 55:                                          70350                   0
## 56:                                   13     35827      FL_14        1
## 57:                                   10     99381      FL_17        1
## 58:                                    5     50073      FL_17        1
## 59:                                          58117                   0
## 60:                                    5     88587      FL_16        1
## 61:                                          85808                   0
## 62:                                    7     58239      FL_14        1
## 63:                                   24     23526      FL_17        1
## 64:                                1  12     55752      FL_41        0
## 65:                                          85086                   0
## 66:                                   17     46436      FL_17        0
##     Negative_Images_Phase2_NumClicks Total_Score Random ID Assignment Q1_Score
##     Q2_Score Q3_Score Q4_Score Q5_Score Q6_Score Q7_Score Q8_Score Q9_Score
##  1:        0        0        0        0        0        0        0        0
##  2:        0        0        0        0        0        0        0        0
##  3:        1        1        0        0        1        0        1        1
##  4:        0        0        0        0        0        0        0        0
##  5:        0        0        0        0        0        0        0        0
##  6:        0        0        0        0        0        0        0        0
##  7:        0        0        1        1        0        1        0        0
##  8:        0        1        0        0        1        1        1        1
##  9:        0        0        0        0        0        0        0        0
## 10:        0        0        0        0        0        0        0        0
```

```
## 11:  0  0  0  0  0  0  0  0
## 12:  0  1  0  0  0  1  1  1
## 13:  0  1  1  1  1  1  1  1
## 14:  1  0  1  1  0  1  1  1
## 15:  0  1  1  0  1  1  0  1
## 16:  1  1  1  0  1  1  1  1
## 17:  0  0  0  0  0  0  0  0
## 18:  0  1  1  1  1  1  0  1
## 19:  1  0  0  1  0  0  1  0
## 20:  1  1  0  1  1  1  1  1
## 21:  0  0  1  0  0  0  0  0
## 22:  0  0  0  0  0  0  0  0
## 23:  1  1  0  1  0  1  1  0
## 24:  1  0  0  1  0  0  1  0
## 25:  1  0  0  1  1  1  0  1
## 26:  0  1  1  0  1  1  0  1
## 27:  0  0  0  0  0  1  1  0
## 28:  1  1  1  1  1  1  1  1
## 29:  0  0  1  0  1  1  1  1
## 30:  0  0  1  1  1  0  1  1
## 31:  0  1  1  1  1  1  0  0
## 32:  0  1  0  1  0  0  0  0
## 33:  1  1  0  0  0  1  1  0
## 34:  0  1  1  0  1  1  0  1
## 35:  0  0  1  0  0  0  0  0
## 36:  0  0  1  0  1  1  1  1
## 37:  0  1  0  1  0  0  0  1
## 38:  1  1  1  0  1  1  1  1
## 39:  0  0  1  1  0  1  1  1
## 40:  1  1  1  1  1  0  0  1
## 41:  1  1  1  0  0  1  0  0
## 42:  0  0  1  0  0  0  1  0
## 43:  0  0  0  1  0  1  0  1
## 44:  1  0  0  1  0  0  1  0
## 45:  1  0  0  1  0  1  1  1
## 46:  0  0  0  0  0  1  1  0
## 47:  1  0  0  1  0  0  1  0
## 48:  1  0  0  1  0  0  1  0
## 49:  1  1  1  1  1  1  1  1
## 50:  0  0  1  1  1  0  1  1
## 51:  1  0  1  1  1  1  0  0
## 52:  0  1  0  0  0  0  0  0
## 53:  0  0  1  1  1  0  0  0
## 54:  0  0  0  0  0  0  0  0
## 55:  0  0  0  0  0  0  0  0
## 56:  1  0  1  0  1  1  1  1
## 57:  1  0  0  1  0  0  1  0
## 58:  0  0  1  1  1  0  0  0
## 59:  0  0  0  0  0  0  0  0
## 60:  1  1  0  0  1  0  0  1
## 61:  0  0  0  0  0  0  0  0
## 62:  0  1  0  0  1  1  1  1
## 63:  1  1  0  0  1  1  1  1
## 64:  0  1  0  0  1  1  1  1
```

```
## 65:        0        0        0        0        0        0        0        0
## 66:        1        1        0        1        0        1        1        1
##     Q2_Score Q3_Score Q4_Score Q5_Score Q6_Score Q7_Score Q8_Score Q9_Score
##     Q10_Score Q11_Score Q12_Score Q13_Score Q14_Score Q15_Score Q16_Score
##  1:         0         0         0         0         0         0         0
##  2:         0         0         0         0         0         0         0
##  3:         0         0         0         0         0         0         0
##  4:         0         0         0         0         0         0         0
##  5:         0         0         0         0         0         0         0
##  6:         0         0         0         0         0         0         0
##  7:         1         0         0         0         0         0         0
##  8:         1         0         0         0         0         0         0
##  9:         0         0         0         0         0         0         0
## 10:         0         0         0         0         0         0         0
## 11:         0         0         0         0         0         0         0
## 12:         1         0         0         0         0         0         0
## 13:         1         1         1         0         1         1         0
## 14:         0         1         1         0         1         0         0
## 15:         0         0         0         0         0         0         0
## 16:         1         0         0         0         0         0         0
## 17:         0         0         0         0         0         0         0
## 18:         0         1         0         0         1         0         1
## 19:         1         1         1         0         0         1         1
## 20:         1         0         0         0         0         0         0
## 21:         0         0         0         0         1         0         1
## 22:         0         0         0         0         0         0         0
## 23:         1         0         1         0         0         1         1
## 24:         1         0         1         0         0         1         1
## 25:         1         0         0         0         0         0         0
## 26:         0         0         0         0         0         0         0
## 27:         0         0         0         0         1         1         0
## 28:         1         1         1         0         1         1         1
## 29:         1         0         0         0         0         0         0
## 30:         1         0         0         0         1         1         0
## 31:         0         1         0         0         1         1         1
## 32:         1         0         0         0         0         0         0
## 33:         1         1         0         0         1         1         1
## 34:         0         0         0         0         0         0         0
## 35:         0         0         1         0         1         0         0
## 36:         0         0         0         0         0         0         0
## 37:         1         0         0         0         0         0         0
## 38:         0         0         0         0         0         0         0
## 39:         1         0         0         0         1         1         0
## 40:         1         1         0         0         1         0         1
## 41:         0         0         0         0         0         0         0
## 42:         1         0         1         0         0         1         1
## 43:         1         0         1         0         0         1         1
## 44:         1         0         1         0         0         1         1
## 45:         1         0         0         0         1         1         0
## 46:         0         0         0         0         0         1         0
## 47:         1         0         1         0         0         1         1
## 48:         1         1         0         0         0         0         0
## 49:         1         0         0         0         0         0         0
## 50:         1         0         1         0         0         1         1
```

```
## 51:         0         1         1         0         0         0         1
## 52:         0         0         1         0         0         0         0
## 53:         1         0         0         0         1         1         1
## 54:         0         0         0         0         0         1         0
## 55:         0         0         0         0         0         0         0
## 56:         1         0         1         0         0         0         1
## 57:         1         0         1         0         0         1         1
## 58:         1         0         0         0         0         0         0
## 59:         0         0         0         0         0         0         0
## 60:         0         0         0         0         0         0         0
## 61:         0         0         0         0         0         0         0
## 62:         1         0         0         0         0         0         0
## 63:         1         0         1         0         1         1         1
## 64:         1         1         1         0         1         0         0
## 65:         0         0         0         0         0         0         0
## 66:         1         0         0         0         0         1         0
##     Q10_Score Q11_Score Q12_Score Q13_Score Q14_Score Q15_Score Q16_Score
##     Q17_Score Q18_Score Q19_Score Q20_Score Q21_Score Q22_Score Q23_Score
##  1:         0         0         0         0         0         0         0
##  2:         0         0         0         0         0         0         0
##  3:         0         0         0         0         0         0         0
##  4:         0         0         0         0         0         0         0
##  5:         0         0         0         0         0         0         0
##  6:         0         0         0         0         0         0         0
##  7:         0         0         0         0         0         0         0
##  8:         0         0         0         0         0         0         0
##  9:         0         0         0         0         0         0         0
## 10:         0         0         0         0         0         0         0
## 11:         0         0         0         0         0         0         0
## 12:         0         0         0         0         0         0         0
## 13:         1         1         1         1         0         0         0
## 14:         1         0         1         0         1         0         0
## 15:         0         0         0         0         0         0         0
## 16:         0         0         0         0         0         0         0
## 17:         0         0         0         0         0         0         0
## 18:         1         0         1         0         0         0         1
## 19:         1         1         0         1         0         0         0
## 20:         0         0         0         0         0         0         0
## 21:         1         0         1         0         1         0         0
## 22:         0         0         0         0         0         0         0
## 23:         0         1         0         1         1         0         0
## 24:         0         1         0         1         1         1         0
## 25:         0         0         0         0         0         0         0
## 26:         0         0         0         0         0         0         0
## 27:         0         0         0         1         1         0         0
## 28:         1         0         1         0         0         0         1
## 29:         0         0         0         0         0         0         0
## 30:         0         0         0         0         1         0         0
## 31:         1         1         1         1         0         1         1
## 32:         0         0         0         0         0         0         0
## 33:         1         0         1         0         0         0         0
## 34:         0         0         0         0         0         0         0
## 35:         0         0         1         0         1         1         0
## 36:         0         0         0         0         0         0         0
```

```
## 37:         0         0         0         0         0         0         0
## 38:         0         0         0         0         0         0         0
## 39:         0         0         0         1         0         0         0
## 40:         1         0         1         0         0         0         0
## 41:         0         0         0         0         0         0         0
## 42:         1         1         1         0         1         1         1
## 43:         0         1         0         1         1         1         0
## 44:         0         1         0         1         1         1         0
## 45:         0         0         0         0         0         1         1
## 46:         0         1         0         1         1         1         1
## 47:         0         1         0         1         1         1         0
## 48:         1         0         1         1         1         0         0
## 49:         0         0         0         0         0         0         0
## 50:         0         1         1         1         1         1         1
## 51:         1         1         1         1         1         0         0
## 52:         1         0         1         1         1         0         1
## 53:         1         1         1         1         1         0         0
## 54:         0         0         0         1         0         1         1
## 55:         0         0         0         0         0         0         0
## 56:         0         1         0         1         0         0         0
## 57:         0         1         0         1         0         0         0
## 58:         0         0         0         0         0         0         0
## 59:         0         0         0         0         0         0         0
## 60:         0         0         0         0         0         0         0
## 61:         0         0         0         0         0         0         0
## 62:         0         0         0         0         0         0         0
## 63:         1         1         1         0         1         1         1
## 64:         1         0         1         0         0         0         0
## 65:         0         0         0         0         0         0         0
## 66:         0         0         1         1         0         1         1
##     Q17_Score Q18_Score Q19_Score Q20_Score Q21_Score Q22_Score Q23_Score
##     Q24_Score Q25_Score Q26_Score Q27_Score Q28_Score Q29_Score Q30_Score
##  1:         0         0         0         0         0         0         0
##  2:         0         0         0         0         0         0         0
##  3:         0         0         0         0         0         0         0
##  4:         0         0         0         0         0         0         0
##  5:         0         0         0         0         0         0         0
##  6:         0         0         0         0         0         0         0
##  7:         0         0         0         0         0         0         0
##  8:         0         0         0         0         0         0         0
##  9:         0         0         0         0         0         0         0
## 10:         0         0         0         0         0         0         0
## 11:         0         0         0         0         0         0         0
## 12:         0         0         0         0         0         0         0
## 13:         0         0         0         0         0         0         0
## 14:         0         0         1         0         0         1         1
## 15:         0         0         0         0         0         0         0
## 16:         0         0         0         0         0         0         0
## 17:         0         0         0         0         0         0         0
## 18:         0         1         1         0         1         0         0
## 19:         0         0         0         0         0         0         0
## 20:         0         0         0         0         0         0         0
## 21:         1         0         0         0         0         1         1
## 22:         0         0         0         0         0         0         0
```

```
## 23:         1         1         0         0         0         1         0
## 24:         1         0         0         0         0         1         1
## 25:         0         0         0         0         0         0         0
## 26:         0         0         0         0         0         0         0
## 27:         1         1         0         0         1         1         0
## 28:         1         0         0         0         1         0         1
## 29:         0         0         0         0         0         0         0
## 30:         0         0         1         0         1         1         1
## 31:         0         0         1         0         1         1         1
## 32:         0         0         0         0         0         0         0
## 33:         0         0         0         0         0         0         0
## 34:         0         0         0         0         0         0         0
## 35:         0         1         1         1         1         0         1
## 36:         0         0         0         0         0         0         0
## 37:         0         0         0         0         0         0         0
## 38:         0         0         0         0         0         0         0
## 39:         0         0         0         0         0         0         0
## 40:         1         1         1         0         1         0         0
## 41:         0         0         0         0         0         0         0
## 42:         0         1         1         1         1         0         0
## 43:         1         0         0         0         0         1         1
## 44:         1         0         0         0         0         1         1
## 45:         1         0         0         0         0         0         1
## 46:         1         0         1         0         1         1         0
## 47:         1         0         0         0         0         1         1
## 48:         0         0         0         1         0         1         0
## 49:         0         0         0         0         0         0         0
## 50:         1         0         0         0         0         1         1
## 51:         0         0         1         0         1         1         0
## 52:         1         1         0         0         1         0         1
## 53:         1         1         0         1         0         0         0
## 54:         1         1         1         0         1         0         0
## 55:         0         0         0         0         0         0         0
## 56:         0         0         0         0         0         0         0
## 57:         0         0         0         0         0         0         0
## 58:         0         0         0         0         0         0         0
## 59:         0         0         0         0         0         0         0
## 60:         0         0         0         0         0         0         0
## 61:         0         0         0         0         0         0         0
## 62:         0         0         0         0         0         0         0
## 63:         1         1         1         0         1         0         1
## 64:         0         0         0         0         0         0         0
## 65:         0         0         0         0         0         0         0
## 66:         1         0         1         0         1         0         1
##     Q24_Score Q25_Score Q26_Score Q27_Score Q28_Score Q29_Score Q30_Score
##     Assignment_Group TaskPhase1_Score TaskPhase2_Score TaskPhase3_Score
##  1:  Negative Images             0.0             0.0             0.0
##  2:  Negative Images             0.0             0.0             0.0
##  3:  Negative Images             0.5             0.0             0.0
##  4:  Negative Images             0.0             0.0             0.0
##  5:  Negative Images             0.0             0.0             0.0
##  6:  Negative Images             0.0             0.0             0.0
##  7:          Control             0.5             0.0             0.0
##  8:     Self-Reflect             0.7             0.0             0.0
```

```
##  9:  Negative Images            0.0             0.0             0.0
## 10:  Negative Images            0.0             0.0             0.0
## 11:  Negative Images            0.0             0.0             0.0
## 12: Medical Feedback            0.6             0.0             0.0
## 13:          Control            0.9             0.8             0.0
## 14:  Positive Images            0.7             0.5             0.4
## 15:     Self-Reflect            0.5             0.0             0.0
## 16:  Negative Images            0.9             0.0             0.0
## 17:  Negative Images            0.0             0.0             0.0
## 18: Medical Feedback            0.6             0.5             0.4
## 19:  Negative Images            0.4             0.7             0.0
## 20:  Negative Images            0.9             0.0             0.0
## 21:  Positive Images            0.2             0.4             0.4
## 22:  Negative Images            0.0             0.0             0.0
## 23:  Positive Images            0.7             0.5             0.4
## 24: Medical Feedback            0.5             0.5             0.5
## 25:          Control            0.7             0.0             0.0
## 26:          Control            0.5             0.0             0.0
## 27:  Positive Images            0.3             0.3             0.5
## 28:     Self-Reflect            1.0             0.7             0.4
## 29:     Self-Reflect            0.6             0.0             0.0
## 30:  Negative Images            0.7             0.2             0.5
## 31:  Negative Images            0.5             0.8             0.6
## 32:     Self-Reflect            0.4             0.0             0.0
## 33: Medical Feedback            0.6             0.6             0.0
## 34:     Self-Reflect            0.5             0.0             0.0
## 35:          Control            0.1             0.3             0.7
## 36:     Self-Reflect            0.6             0.0             0.0
## 37:  Positive Images            0.4             0.0             0.0
## 38: Medical Feedback            0.8             0.0             0.0
## 39:     Self-Reflect            0.7             0.3             0.0
## 40:  Positive Images            0.8             0.5             0.4
## 41: Medical Feedback            0.4             0.0             0.0
## 42: Medical Feedback            0.4             0.6             0.7
## 43:  Negative Images            0.4             0.5             0.5
## 44:     Self-Reflect            0.5             0.5             0.5
## 45:          Control            0.7             0.2             0.4
## 46: Medical Feedback            0.2             0.3             0.7
## 47:  Positive Images            0.5             0.5             0.5
## 48:     Self-Reflect            0.5             0.4             0.3
## 49:          Control            1.0             0.0             0.0
## 50:     Self-Reflect            0.7             0.6             0.6
## 51: Medical Feedback            0.6             0.7             0.4
## 52:     Self-Reflect            0.2             0.4             0.6
## 53:  Negative Images            0.5             0.7             0.4
## 54:  Positive Images            0.0             0.2             0.6
## 55:  Negative Images            0.0             0.0             0.0
## 56:     Self-Reflect            0.8             0.4             0.0
## 57:          Control            0.5             0.5             0.0
## 58:          Control            0.5             0.0             0.0
## 59:  Negative Images            0.0             0.0             0.0
## 60:  Positive Images            0.5             0.0             0.0
## 61:  Negative Images            0.0             0.0             0.0
## 62:     Self-Reflect            0.7             0.0             0.0
```

```
## 63:          Control              0.8              0.7              0.8
## 64:  Negative Images              0.6              0.5              0.0
## 65:  Negative Images              0.0              0.0              0.0
## 66:          Control              0.7              0.3              0.6
##     Assignment_Group TaskPhase1_Score TaskPhase2_Score TaskPhase3_Score
```

```
d_attrition[ , (as.numeric(Progress))]
```

```
##  [1]  3  3 82  3  3  3 83 81  3  3  3 83 90 99 81 82  3 99 92 82 99  3 99 99 81
## [26] 81 99 99 81 99 99 81 92 81 99 81 82 83 92 99 83 99 99 99 99 99 99 99 81 99
## [51] 99 99 99 99  3 92 92 81  3 84  3 83 99 92  3 99
```

```
#14 people attritted before answering a single question...did not receive assignment
d_attrition[Q1 == "", Attrition_Stage := "Before TaskPhase1"]
```

```
#20 people attrited before answering Question 11
d_attrition[(Q1 != "") & (Q11 == ""), Attrition_Stage := "Before TaskPhase2"]
```

```
#7 people attrited before answering Question 21
d_attrition[(Q1 != "") & (Q11 != "") & (Q21 == ""), Attrition_Stage := "Before TaskPhase3"]
```

```
# 25 people completed all questions but did not submit
d_attrition[(Q1 != "") & (Q11 != "") & (Q21 != "") & (Q30 != ""), Attrition_Stage := "Before Submission
```

```
# look at where people fall off
d_attrition[ , (.N), by = .(Attrition_Stage)]
```

```
##      Attrition_Stage V1
## 1: Before TaskPhase1 14
## 2: Before TaskPhase2 20
## 3: Before TaskPhase3  7
## 4: Before Submission 25
```