```r
library(readxl)
library(lme4)
```

```
## Loading required package: Matrix
```

```r
library(lmerTest)
```

```
##
## Attaching package: 'lmerTest'

## The following object is masked from 'package:lme4':
##
##     lmer

## The following object is masked from 'package:stats':
##
##     step
```

```r
library(car)
```

```
## Loading required package: carData
```

```r
library(MuMIn)
library(afex)
```

```
## ************
## Welcome to afex. For support visit: http://afex.singmann.science/

## - Functions for ANOVAs: aov_car(), aov_ez(), and aov_4()
## - Methods for calculating p-values with mixed(): 'S', 'KR', 'LRT', and 'PB'
## - 'afex_aov' and 'mixed' objects can be passed to emmeans() for follow-up tests
## - NEWS: emmeans() for ANOVA models now uses model = 'multivariate' as default.
## - Get and set global package options with: afex_options()
## - Set orthogonal sum-to-zero contrasts globally: set_sum_contrasts()
## - For example analyses see: browseVignettes("afex")
## ************

##
## Attaching package: 'afex'

## The following object is masked from 'package:lme4':
##
##     lmer
```

```r
data <- read_excel("../Data/PredictingOutcomes_ParticipantDemographics.xlsx", sheet = "Study 1A")

print(data)
```

```
## # A tibble: 144 x 19
##    study partici~1 gener~2 rate  respo~3 score~4 respo~5 score~6 respo~7 score~8
##    <chr>     <dbl> <chr>   <chr> <chr>     <dbl> <chr>     <dbl> <chr>     <dbl>
##  1 1A            1 analyst ukno~ 50%           0 5             1 0.1%          1
##  2 1A            3 analyst ukno~ 12.5%         1 50            0 0.1%          1
##  3 1A            6 analyst ukno~ 25            0 1             0 1             0
##  4 1A            8 analyst ukno~ 12.5%         1 5             1 0.1%          1
##  5 1A           14 analyst ukno~ 15            0 50            0 0.1           1
##  6 1A           17 analyst ukno~ 50            0 100           0 10            0
##  7 1A           20 analyst ukno~ 15            0 5             1 0.1           1
##  8 1A           24 analyst ukno~ 10            0 5             1 0.1           1
##  9 1A           28 analyst ukno~ 35            0 5             1 .1            1
## 10 1A           32 analyst ukno~ 0.15%         0 1             0 0.1%          1
## # ... with 134 more rows, 9 more variables: response_fin1 <dbl>,
## #   score_fin1 <dbl>, response_fin2 <dbl>, score_fin2 <dbl>, age <dbl>,
## #   gender <dbl>, highest_degree <dbl>, stocks <dbl>, gambling <dbl>, and
## #   abbreviated variable names 1: participant_id, 2: generator,
## #   3: response_prob1, 4: score_prob1, 5: response_prob2, 6: score_prob2,
## #   7: response_prob3, 8: score_prob3
```

create a map like data structure to store the unique participant id with there corresponding gender

```
map <- data.frame(unique(data$participant_id), data$gender)
map
```

```
##     unique.data.participant_id. data.gender
## 1                             1           1
## 2                             3           0
## 3                             6           1
## 4                             8           1
## 5                            14           0
## 6                            17           1
## 7                            20           1
## 8                            24           0
## 9                            28           0
## 10                           32           1
## 11                           34           0
## 12                           37           0
## 13                           39           0
## 14                           40           0
## 15                           43           1
## 16                           46           0
## 17                           52           1
## 18                           54           0
## 19                           57           0
## 20                           59           0
## 21                           64           0
## 22                           69           1
## 23                           72           0
## 24                           74           1
## 25                           76           1
## 26                           82           1
## 27                           85           1
```

```
## 28  88  0
## 29  90  0
## 30  93  1
## 31  96  0
## 32  99  0
## 33 102  1
## 34 105  1
## 35 108  0
## 36 110  0
## 37 112  0
## 38 114  0
## 39 117  0
## 40 120  1
## 41 122  0
## 42 125  0
## 43 128  1
## 44 132  1
## 45 134  0
## 46 136  1
## 47 139  0
## 48 141  0
## 49 144  0
## 50 147  1
## 51 151  1
## 52 152  0
## 53 153  0
## 54 154  0
## 55 155  1
## 56 156  0
## 57 157  0
## 58 158  1
## 59 159  1
## 60 160  1
## 61 161  1
## 62 162  0
## 63 163  0
## 64 164  1
## 65 165  0
## 66 166  0
## 67 167  1
## 68 168  1
## 69 169  0
## 70 170  1
## 71 171  0
## 72 172  1
## 73 173  0
## 74 174  0
## 75 175  1
## 76 176  1
## 77 177  0
## 78 178  1
## 79 179  0
## 80 180  1
## 81 181  1
```

## 82	182	0
## 83	183	1
## 84	184	0
## 85	185	0
## 86	186	1
## 87	187	0
## 88	188	0
## 89	189	0
## 90	190	1
## 91	191	0
## 92	192	0
## 93	193	0
## 94	194	0
## 95	195	1
## 96	196	1
## 97	197	0
## 98	198	0
## 99	199	0
## 100	200	0
## 101	4	0
## 102	7	1
## 103	9	1
## 104	11	1
## 105	15	0
## 106	18	0
## 107	21	1
## 108	22	0
## 109	26	0
## 110	30	0
## 111	33	0
## 112	35	1
## 113	44	1
## 114	47	0
## 115	49	0
## 116	55	0
## 117	58	0
## 118	60	0
## 119	62	0
## 120	65	0
## 121	67	1
## 122	70	1
## 123	77	1
## 124	79	0
## 125	81	1
## 126	83	0
## 127	86	0
## 128	91	0
## 129	94	1
## 130	97	0
## 131	100	0
## 132	103	0
## 133	106	1
## 134	115	0
## 135	118	0

```
## 136                        123          1
## 137                        126          0
## 138                        129          0
## 139                        137          0
## 140                        140          0
## 141                        142          1
## 142                        145          1
## 143                        148          1
## 144                        150          0
```

```r
data1 <- read_excel("../Data/PredictingOutcomes_ParticipantPredictions.xlsx", sheet = "Study 1A")
```

append the prediction_recode and terminal_streak_length for each participant to map

```r
for (i in 1:nrow(map)) {
  map[i, 3] <- mean(data1[data1$participant_id == map[i, 1], "prediction_recode"])
  map[i, 4] <- mean(data1[data1$participant_id == map[i, 1], "terminal_streak_length"])
}
```

```
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```

```
map
```

```
##     unique.data.participant_id. data.gender V3 V4
## 1                             1           1 NA NA
## 2                             3           0 NA NA
## 3                             6           1 NA NA
## 4                             8           1 NA NA
## 5                            14           0 NA NA
## 6                            17           1 NA NA
## 7                            20           1 NA NA
## 8                            24           0 NA NA
## 9                            28           0 NA NA
## 10                           32           1 NA NA
## 11                           34           0 NA NA
## 12                           37           0 NA NA
## 13                           39           0 NA NA
## 14                           40           0 NA NA
## 15                           43           1 NA NA
## 16                           46           0 NA NA
## 17                           52           1 NA NA
## 18                           54           0 NA NA
## 19                           57           0 NA NA
## 20                           59           0 NA NA
## 21                           64           0 NA NA
## 22                           69           1 NA NA
## 23                           72           0 NA NA
## 24                           74           1 NA NA
## 25                           76           1 NA NA
## 26                           82           1 NA NA
## 27                           85           1 NA NA
## 28                           88           0 NA NA
## 29                           90           0 NA NA
## 30                           93           1 NA NA
## 31                           96           0 NA NA
## 32                           99           0 NA NA
## 33                          102           1 NA NA
## 34                          105           1 NA NA
```

```
## 35                108          0 NA NA
## 36                110          0 NA NA
## 37                112          0 NA NA
## 38                114          0 NA NA
## 39                117          0 NA NA
## 40                120          1 NA NA
## 41                122          0 NA NA
## 42                125          0 NA NA
## 43                128          1 NA NA
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## 45                134          0 NA NA
## 46                136          1 NA NA
## 47                139          0 NA NA
## 48                141          0 NA NA
## 49                144          0 NA NA
## 50                147          1 NA NA
## 51                151          1 NA NA
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## 53                153          0 NA NA
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## 55                155          1 NA NA
## 56                156          0 NA NA
## 57                157          0 NA NA
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## 59                159          1 NA NA
## 60                160          1 NA NA
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## 62                162          0 NA NA
## 63                163          0 NA NA
## 64                164          1 NA NA
## 65                165          0 NA NA
## 66                166          0 NA NA
## 67                167          1 NA NA
## 68                168          1 NA NA
## 69                169          0 NA NA
## 70                170          1 NA NA
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## 72                172          1 NA NA
## 73                173          0 NA NA
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## 75                175          1 NA NA
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## 78                178          1 NA NA
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## 80                180          1 NA NA
## 81                181          1 NA NA
## 82                182          0 NA NA
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## 84                184          0 NA NA
## 85                185          0 NA NA
## 86                186          1 NA NA
## 87                187          0 NA NA
## 88                188          0 NA NA
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## 89                189          0 NA NA
## 90                190          1 NA NA
## 91                191          0 NA NA
## 92                192          0 NA NA
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## 95                195          1 NA NA
## 96                196          1 NA NA
## 97                197          0 NA NA
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## 100               200          0 NA NA
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## 102                 7          1 NA NA
## 103                 9          1 NA NA
## 104                11          1 NA NA
## 105                15          0 NA NA
## 106                18          0 NA NA
## 107                21          1 NA NA
## 108                22          0 NA NA
## 109                26          0 NA NA
## 110                30          0 NA NA
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## 112                35          1 NA NA
## 113                44          1 NA NA
## 114                47          0 NA NA
## 115                49          0 NA NA
## 116                55          0 NA NA
## 117                58          0 NA NA
## 118                60          0 NA NA
## 119                62          0 NA NA
## 120                65          0 NA NA
## 121                67          1 NA NA
## 122                70          1 NA NA
## 123                77          1 NA NA
## 124                79          0 NA NA
## 125                81          1 NA NA
## 126                83          0 NA NA
## 127                86          0 NA NA
## 128                91          0 NA NA
## 129                94          1 NA NA
## 130                97          0 NA NA
## 131               100          0 NA NA
## 132               103          0 NA NA
## 133               106          1 NA NA
## 134               115          0 NA NA
## 135               118          0 NA NA
## 136               123          1 NA NA
## 137               126          0 NA NA
## 138               129          0 NA NA
## 139               137          0 NA NA
## 140               140          0 NA NA
## 141               142          1 NA NA
## 142               145          1 NA NA
```

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## 143                          148           1 NA NA
## 144                          150           0 NA NA
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