Experiment 3: summa + age groups

Before Exclusions

Number of participants tested:

```
## [1] 536
```

Participants in each condition:

```
## ## all_QUD any_QUD no_QUD
## 18-25 81 83 72
## 45+ 100 100 100
```

Exclusions

Non-unique participants (remove all attempts):

```
## [1] 230 230
```

Age doesn't match age given in prescreening or left blank:

```
workerid age age_group
                                 qud correct_group
## 1
          101
               34
                       18-25 anyQUD
## 2
          109
               NA
                       18-25 anyQUD
                                               <NA>
## 3
          110
               27
                       18-25 anyQUD
                                                  0
                       18-25
                               noQUD
## 4
          181
               NA
                                               <NA>
## 5
          205
               NA
                       18-25
                               noQUD
                                               <NA>
                         45+ allQUD
## 6
          300
               NA
                                               <NA>
          393
               NA
                         45+ anyQUD
                                               <NA>
```

Participants whose native language is not english:

Because we prescreened participants for this experiment, people who left it blank will not be excluded this time

```
##
      workerid language
## 1
            28
## 2
            77 Bulgarian
## 3
           109
## 4
           128 cantonese
## 5
           152
## 6
           163
                  Spanish
## 7
           172
                  Spanish
## 8
           205
## 9
           241
## 10
           300
## 11
           365
## 12
           393
## 13
           533 Mandarin
```

Participants who got at least three practice trials wrong:

```
##
## 3 4
## 10 13
```

Participants who got the audio check wrong more than one once:

```
##
## 366
##
```

Participants who got the second comprehension question wrong more than twice:

```
## # A tibble: 0 x 2
## # Groups:
              workerid [0]
## # ... with 2 variables: workerid <int>, n <int>
```

Participants with accuracy of lower than 85% on non-critical trials:

```
## # A tibble: 26 x 4
## # Groups:
              workerid, gaveRightAnswer [26]
      workerid gaveRightAnswer
                                   n accuracy
         <int> <chr>
##
                               <int>
                                        <dbl>
##
            19 1
                                  36
                                        56.2
  1
## 2
            26 1
                                  35
                                        54.7
## 3
           76 1
                                  32
                                        50
## 4
                                  33
                                        51.6
           129 1
## 5
           153 1
                                  33
                                        51.6
##
  6
                                  33
                                        51.6
           157 1
##
  7
           168 1
                                   5
                                        7.81
## 8
           195 1
                                  34
                                        53.1
## 9
           259 1
                                  32
                                        50
## 10
           280 1
                                  53
                                        82.8
## # ... with 16 more rows
```

Additional Exclusions

Participants who gave more than 5 very slow (logRT>20) responses:

```
## # A tibble: 0 x 3
## # Groups:
               workerid [0]
## # ... with 3 variables: workerid <int>, slowResponse <lgl>, n <int>
Responses that are faster than the onser of the quantifier (rawRT<600):
```

[1] 10

Responses that are very slow (logRT>20):

[1] 4

After Exclusions

Number of participants:

```
## [1] 471
```

Participants left in each condition:

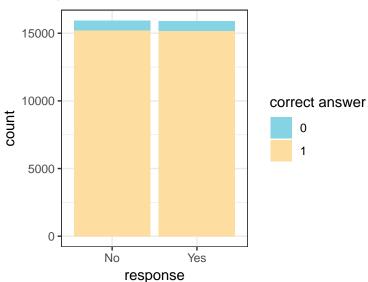
```
## all_QUD any_QUD no_QUD
       159
               152
##
                       160
```

General

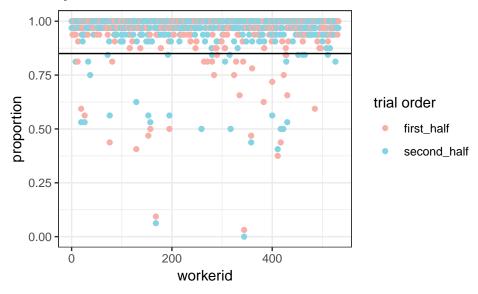
Expected number of yes and no answers:

No Yes ## 15904 15904

Accuracy



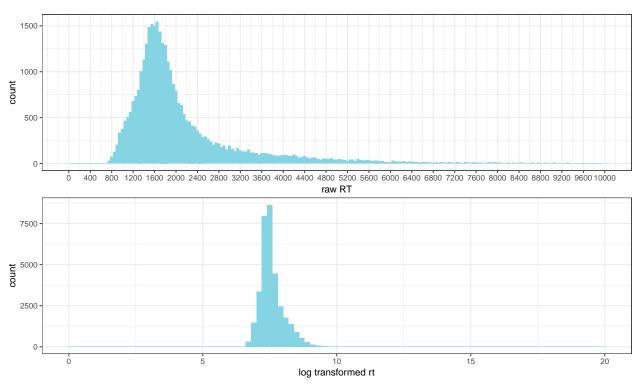
Accuracy and trial order



Distribution of RT and logRT

Warning: Removed 170 rows containing non-finite values (stat_bin).

Warning: Removed 2 rows containing missing values (geom_bar).



15 fastest responses (raw RT)

[1] 650 663 667 689 711 711 712 715 731 738 739 740 743 745 750

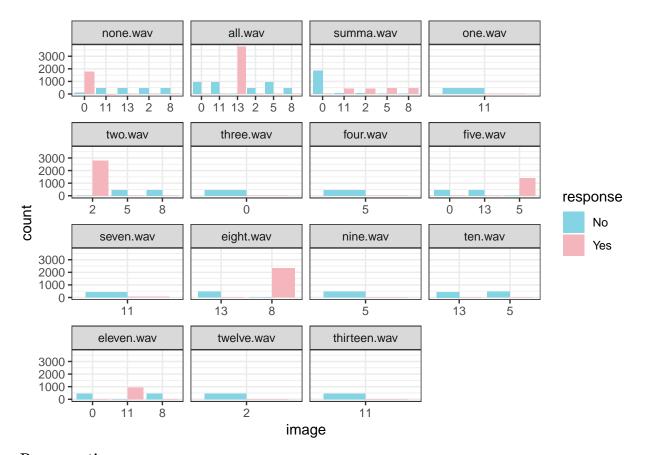
15 slowest responses (raw RT)

[1] 30163 32167 33178 34888 35881 36507 39002 39438 40253 71041

[11] 71813 78323 81411 91796 854982

Non-critical Trials

Response type:



Response time:

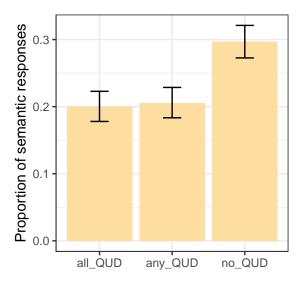


Critical Trials

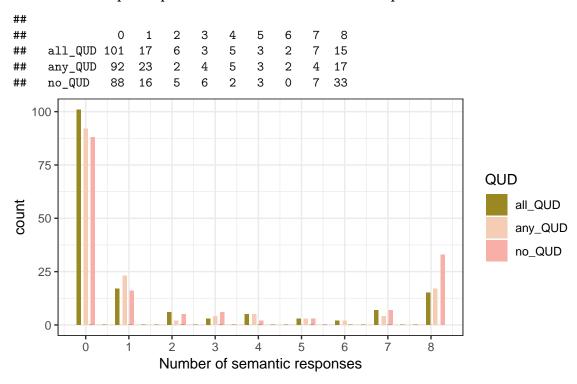
Total number of critical trials (8 per participant):

[1] 3766

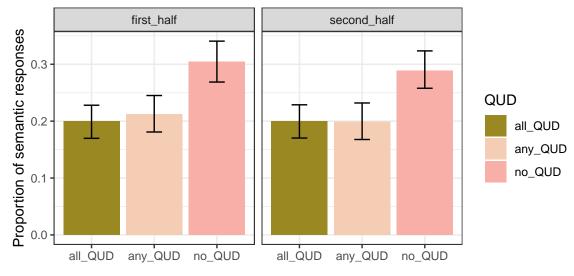
Response Type



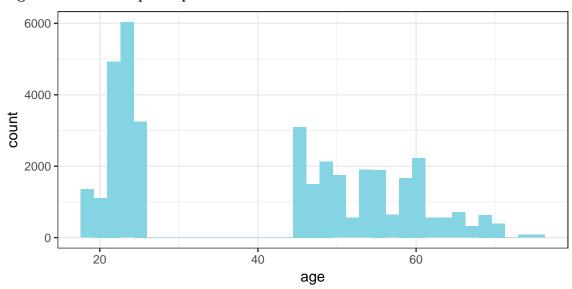
Distribution of participants over number of semantic responses



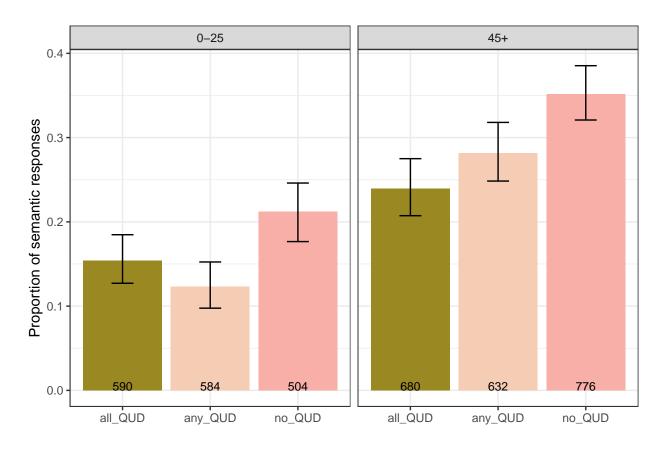
Response type and trial order



Age distribution of participants



Response type and age

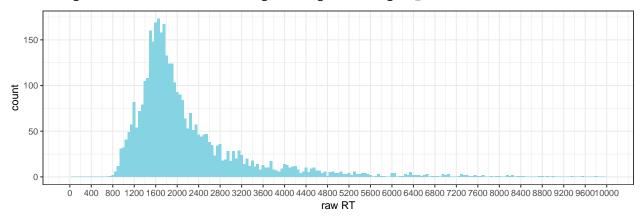


Response Time

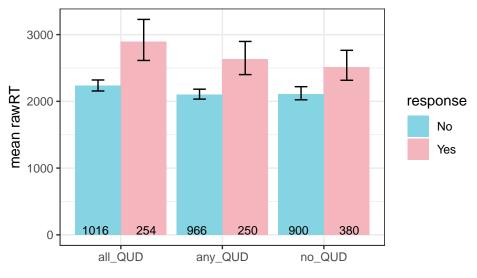
Distribution of response times in critical trials

Warning: Removed 23 rows containing non-finite values (stat_bin).

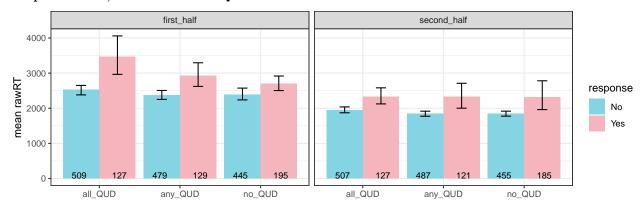
Warning: Removed 2 rows containing missing values (geom_bar).



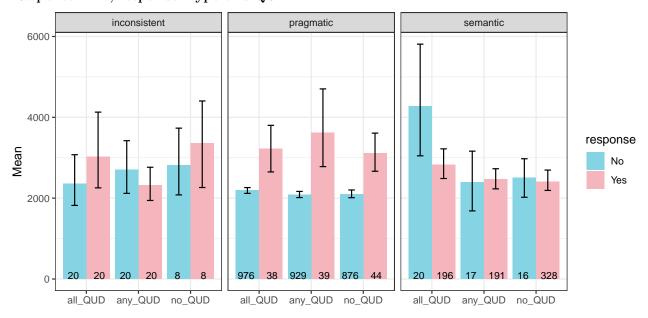
Response time and QUD



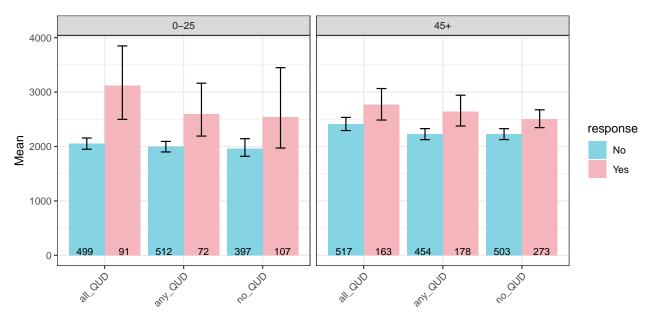
Response time, trial order and QUD



Response time, responder type and QUD



Response time, age and QUD



Response time, age, responder type and QUD

