Process pre-election data

Read in data

Demographics and participant exclusion

Combine demographic info from Prolific and collected via survey

```
comp_q proportion correct: 0.9278481
```

```
`summarise()` has grouped output by 'item', 'q'. You can override using the `.groups` argument.
```

```
# A tibble: 10 x 4
# Groups:
           item, q [10]
    item q
                                                                     prop_correct
  <dbl> <chr>
                                                                            <dbl>
       1 Is holding a staff meeting the first thing the pres~ yes
                                                                            0.965
       2 Does the president hope that outstanding issues wil~ yes
                                                                            0.905
      3 Does the secret service only protect the president,~ no
                                                                            0.963
      4 Does the president take the Oath of Office in priva~ no
                                                                            0.914
5
      5 Did the president make any promises on the campaign~ yes
                                                                            0.831
6
      8 Will the president have access to the nuclear launc~ yes
                                                                            0.96
7
      9 Will the president be accountable for defending the~ yes
                                                                            0.987
8
      10 Will the president make use of the presidential mot~ no
                                                                            0.766
      11 Will the newly elected president receive a lot of a~ yes
9
                                                                            0.988
      12 Will the president be well-protected when traveling~ yes
10
```

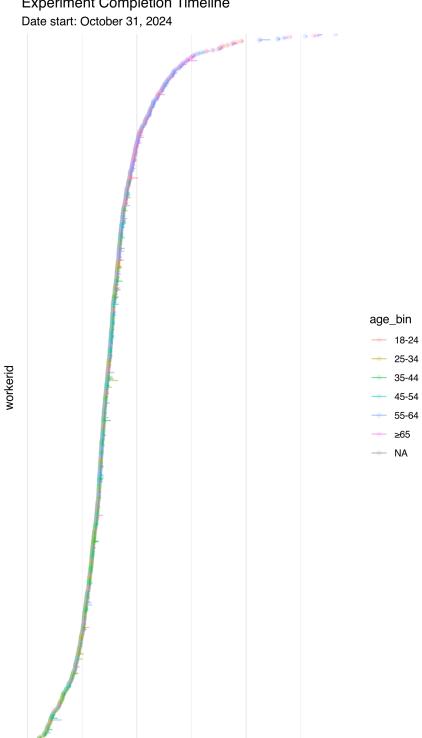
Joining with `by = join_by(prolific_id)`

Participant exclusion. Initial: 1279

After screening criteria: 1255

After removing duplicates: 1255

Experiment Completion Timeline



15:00 18:00 Time (America/New_York)

18:00

12:00

```
SPR: Proportion RTs excluded for being unreasonably fast or slow: 12%.
```

```
Joining with `by = join_by(workerid)`
fixed-effect model matrix is rank deficient so dropping 2 columns /
coefficients
```

Linear mixed model fit by REML ['lmerMod']

```
log(rt) ~ 1 + (scale(log(gmean_rt)) + scale(word_number) + scale(nchar) +
    is_first_in_sent + comma + period)^2 + (1 | item)
Data: spr
```

REML criterion at convergence: 16634.3

Scaled residuals:

Min 1Q Median 3Q Max -9.5047 -0.4883 -0.0583 0.4012 14.8527

Random effects:

Groups Name Variance Std.Dev.
item (Intercept) 0.005776 0.076
Residual 0.119709 0.346
Number of obs: 22756, groups: item, 90

Fixed effects:

	Estimate	Std. Error	t value
(Intercept)	6.140438	0.008487	723.508
<pre>scale(log(gmean_rt))</pre>	0.379915	0.002725	139.415
<pre>scale(word_number)</pre>	-0.045897	0.002570	-17.857
scale(nchar)	0.032697	0.002514	13.005
is_first_in_sentTRUE	0.141114	0.017827	7.916
commaTRUE	0.057630	0.013693	4.209
periodTRUE	0.200650	0.010115	19.837
<pre>scale(log(gmean_rt)):scale(word_number)</pre>	-0.037679	0.002324	-16.210
<pre>scale(log(gmean_rt)):scale(nchar)</pre>	0.020776	0.002319	8.960
<pre>scale(log(gmean_rt)):is_first_in_sentTRUE</pre>	0.016791	0.010009	1.678
<pre>scale(log(gmean_rt)):commaTRUE</pre>	0.046594	0.012530	3.719
<pre>scale(log(gmean_rt)):periodTRUE</pre>	0.091295	0.009520	9.590
<pre>scale(word_number):scale(nchar)</pre>	0.002627	0.002527	1.039
<pre>scale(word_number):is_first_in_sentTRUE</pre>	-0.034335	0.011923	-2.880
scale(word_number):commaTRUE	0.017820	0.018656	0.955
scale(word_number):periodTRUE	0.076169	0.009231	8.251

```
      scale(nchar):is_first_in_sentTRUE
      -0.018889
      0.028368
      -0.666

      scale(nchar):commaTRUE
      -0.042921
      0.014225
      -3.017

      scale(nchar):periodTRUE
      -0.014353
      0.011198
      -1.282

      is_first_in_sentTRUE:commaTRUE
      0.170454
      0.114571
      1.488
```

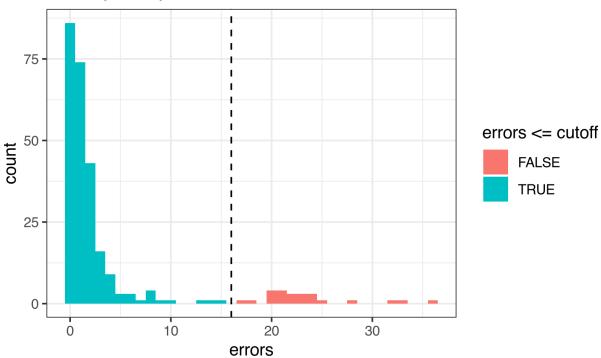
```
Correlation matrix not shown by default, as p = 20 > 12.
Use print(x, correlation=TRUE) or
    vcov(x)    if you need it
```

fit warnings:

fixed-effect model matrix is rank deficient so dropping 2 columns / coefficients

Removed 9% of participants who had number of errors larger than cutoff value.

Maze participants' number of errors



Joining with `by = join_by(workerid)`
fixed-effect model matrix is rank deficient so dropping 2 columns /
coefficients

```
Linear mixed model fit by REML ['lmerMod']
Formula:
log(rt) ~ 1 + (scale(log(gmean_rt)) + scale(word_number) + scale(nchar) +
    prev_incorrect + is_first_in_sent + comma + period)^2 + (1 | item)
Data: maze
```

REML criterion at convergence: 8434.7

Scaled residuals:

Min 1Q Median 3Q Max -7.6516 -0.6528 -0.1474 0.4896 11.8679

Random effects:

Groups Name Variance Std.Dev.
item (Intercept) 0.00804 0.08966
Residual 0.11546 0.33980
Number of obs: 11915, groups: item, 86

Fixed effects:

Estimate	Std. Error	t value
6.877046	0.010414	660.392
0.183225	0.004145	44.202
-0.044429	0.003570	-12.445
0.057471	0.003507	16.389
0.187331	0.023796	7.872
-0.006526	0.024257	-0.269
-0.063380	0.018339	-3.456
-0.024431	0.013659	-1.789
-0.012901	0.003155	-4.089
-0.007757	0.003227	-2.404
0.039494	0.016118	2.450
0.036152	0.013781	2.623
-0.008215	0.016627	-0.494
-0.004128	0.012958	-0.319
0.020428	0.003509	5.821
-0.031094	0.020369	-1.527
0.031381	0.015876	1.977
-0.022324	0.024553	-0.909
-0.037158	0.012493	-2.974
0.082767	0.020492	4.039
-0.079030	0.036270	-2.179
-0.082237	0.019475	-4.223
0.007462	0.015662	0.476
	6.877046 0.183225 -0.044429 0.057471 0.187331 -0.006526 -0.063380 -0.024431 -0.012901 -0.007757 0.039494 0.036152 -0.008215 -0.004128 0.020428 -0.031094 0.031381 -0.022324 -0.037158 0.082767 -0.079030 -0.082237	0.183225 0.004145 -0.044429 0.003570 0.057471 0.003507 0.187331 0.023796 -0.006526 0.024257 -0.063380 0.018339 -0.024431 0.013659 -0.012901 0.003155 -0.007757 0.003227 0.039494 0.016118 0.036152 0.013781 -0.008215 0.016627 -0.004128 0.012958 0.020428 0.003509 -0.031094 0.020369 0.031381 0.015876 -0.022324 0.024553 -0.037158 0.012493 0.082767 0.020492 -0.079030 0.036270 -0.082237 0.019475

```
      prev_incorrectTRUE:is_first_in_sentTRUE
      -0.485031
      0.134447
      -3.608

      prev_incorrectTRUE:commaTRUE
      0.117644
      0.103639
      1.135

      prev_incorrectTRUE:periodTRUE
      0.005412
      0.093174
      0.058

      is_first_in_sentTRUE:commaTRUE
      0.487831
      0.146380
      3.333
```

```
Correlation matrix not shown by default, as p = 27 > 12. Use print(x, correlation=TRUE) or vcov(x) if you need it
```

fit warnings:

fixed-effect model matrix is rank deficient so dropping 2 columns / coefficients

Export