

Target Absent Stopping Rules descriptives

```
total_observations
```

```
## [1] 30050
```

```
trials_per_participant = mean(number_of_trials$num_trials)
trials_per_participant
```

```
## [1] 50
```

Data collect from Essex for the SIBL group was removed as this data had some issues with block length and also the presence of a “difficulty” level that wasn’t included in the study as it was deemed too difficult.

Each participant carried out 50 trials for each difficulty and in both conditions they took part in. Some responses were removed as participants pressed the wrong key.

The rt values in these were replaced with NA as the wrong key had been pressed. Also, as we were interested in looking at the influence of previous rt’s we also removed the first trial from each block as this trial had no previous trial information.

Prior to removing these trials, there were 30050 trials across participants. After removing cases with NA values, we were left with 28656 trials across all participants (about 95% of the data). On average, this left participants with 48 trials per block, condition, and difficulty.

```
total_observations_nar
```

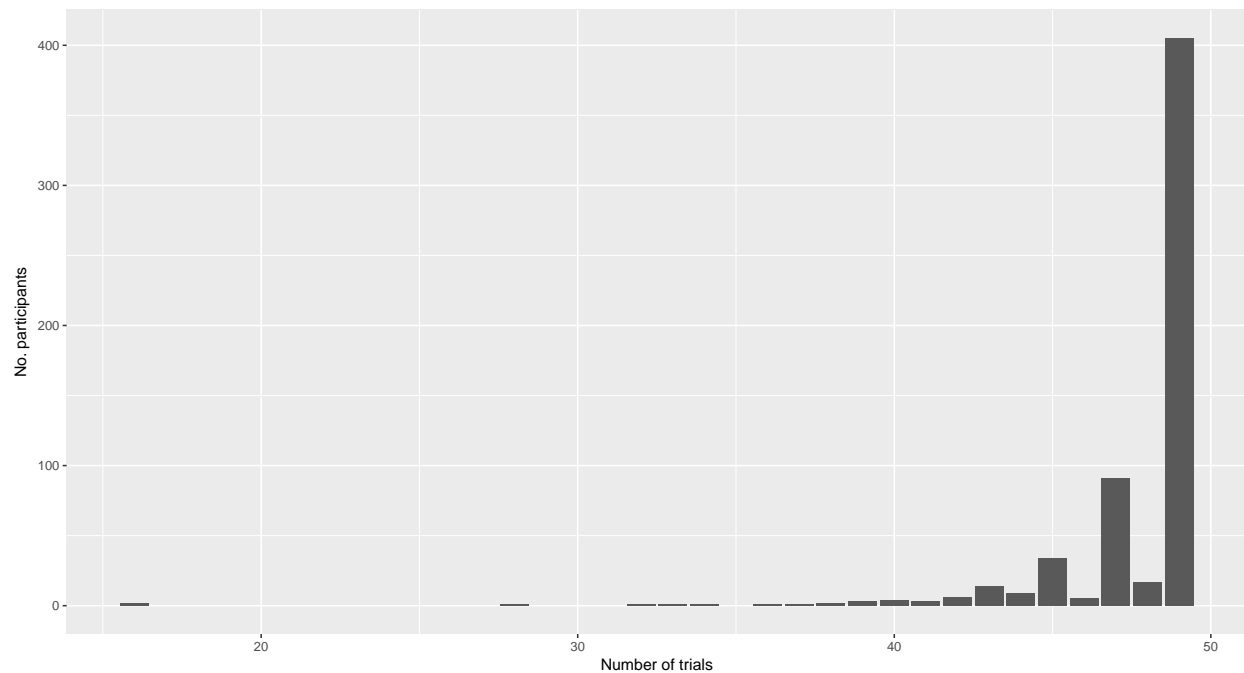
```
## [1] 28656
```

```
trials_per_participant_nar
```

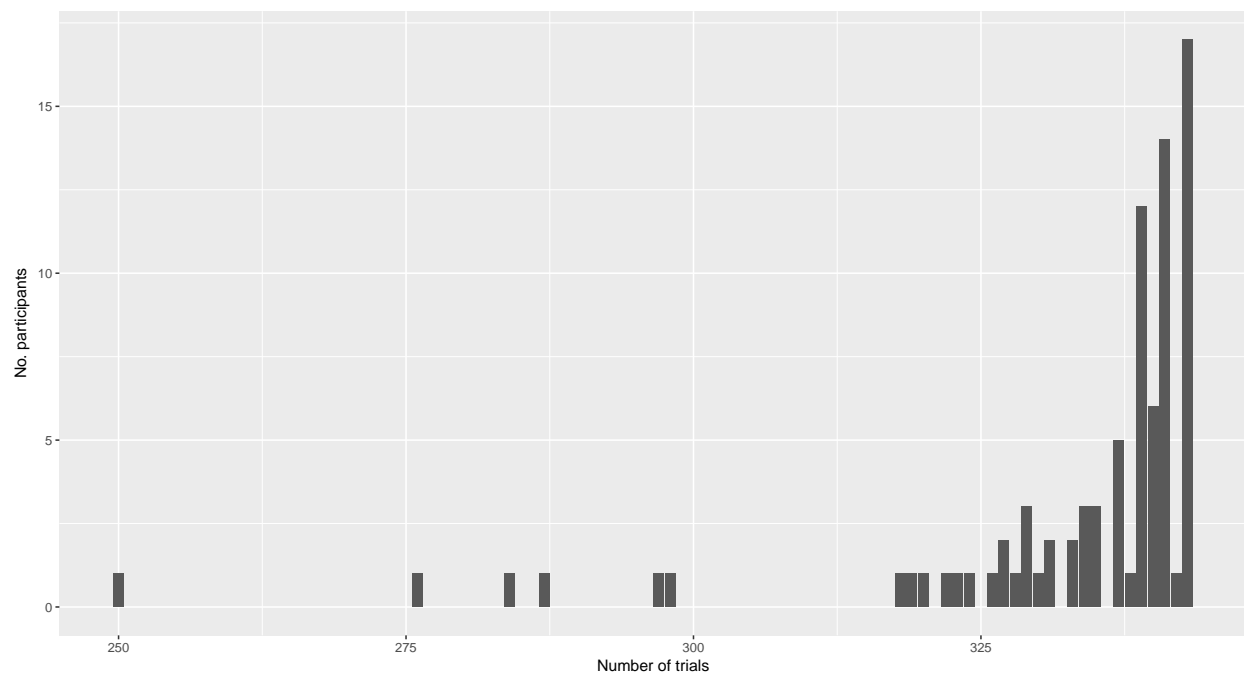
```
## [1] 47.68053
```

We can also plot how many participants carried out “x” amount of trials per block. This plot can be seen below as well as a plot containing information about how many trials in total were carried out and how many participants had this many total trials.

```
trials_per_block_plt
```

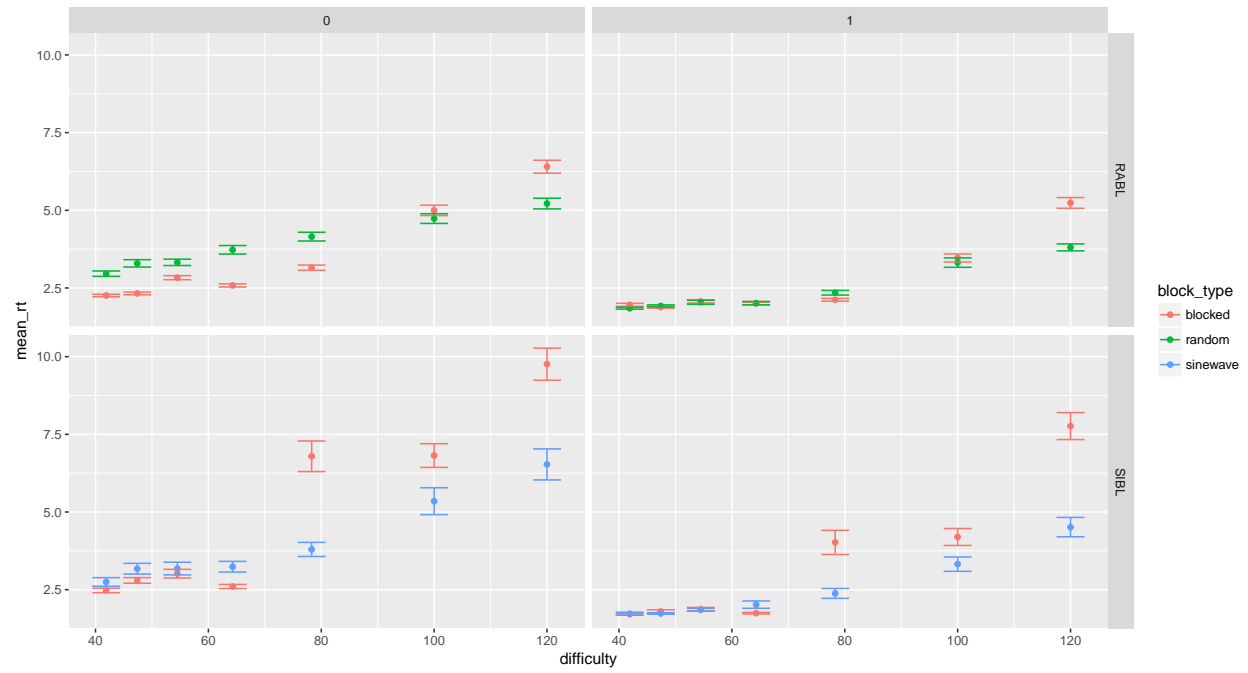


trials_total_plt

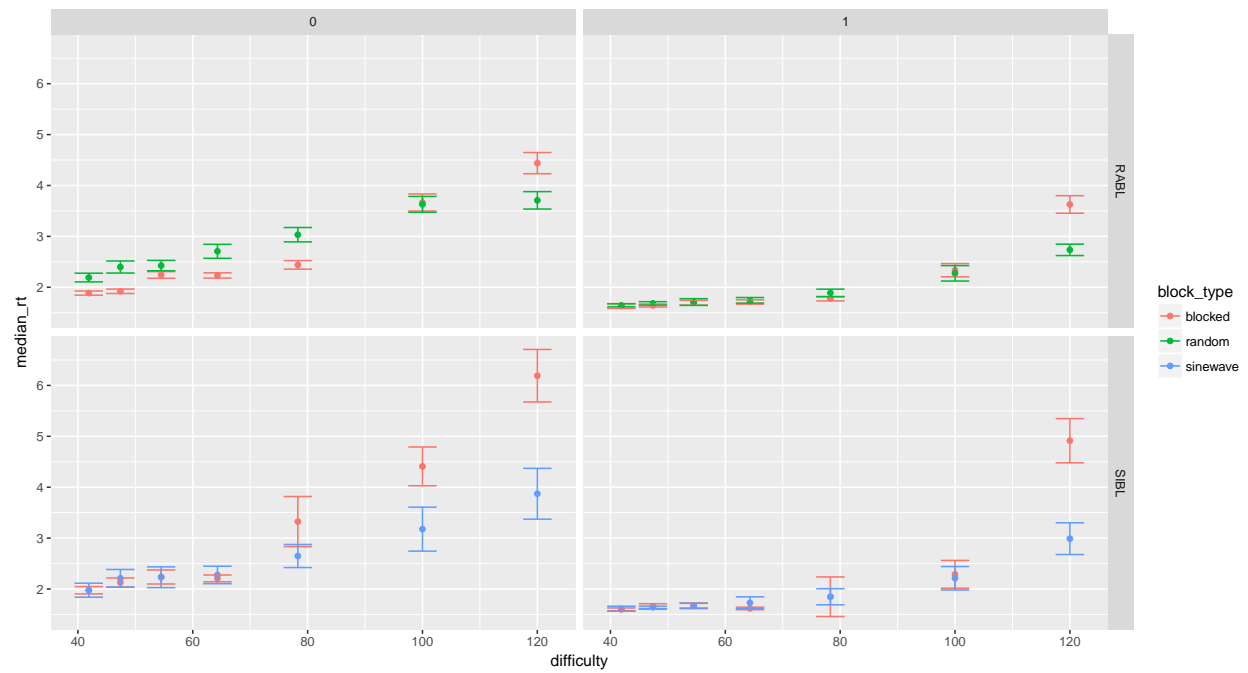


Below are plots of the mean and median reaction times separated by group (either RABL or SIBL) and also whether the target was present or absent (1 or 0 respectively). The first graph is the mean reaction times with standard error bars, the second is of the median reaction times. Along the x-axis is the “difficulty” of the trial. Higher numbers mean more variance in the distractors and therefore a more difficult trial. The number relates to how much the distractor line segments could vary about an orientation that was orthogonal to the target item.

mean_rt_plot

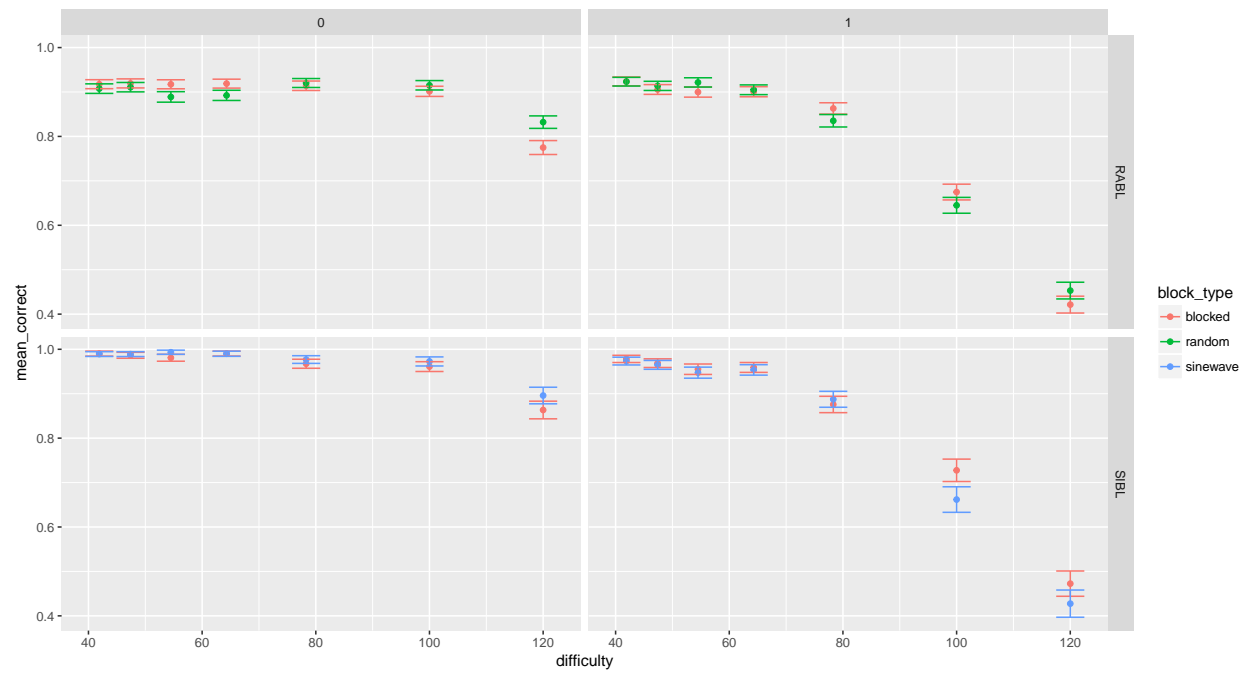


median_rt_plot



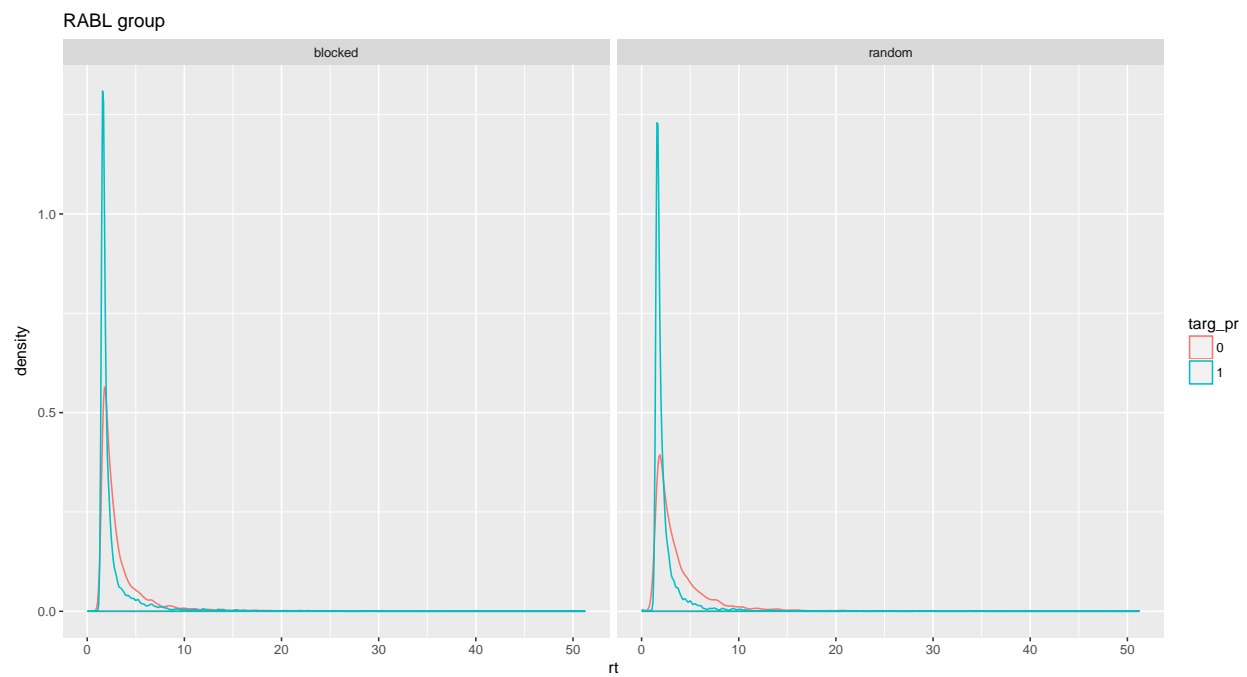
Below are the plots of mean accuracy over different difficulties, block types, and target presence.

mean_acc_plot

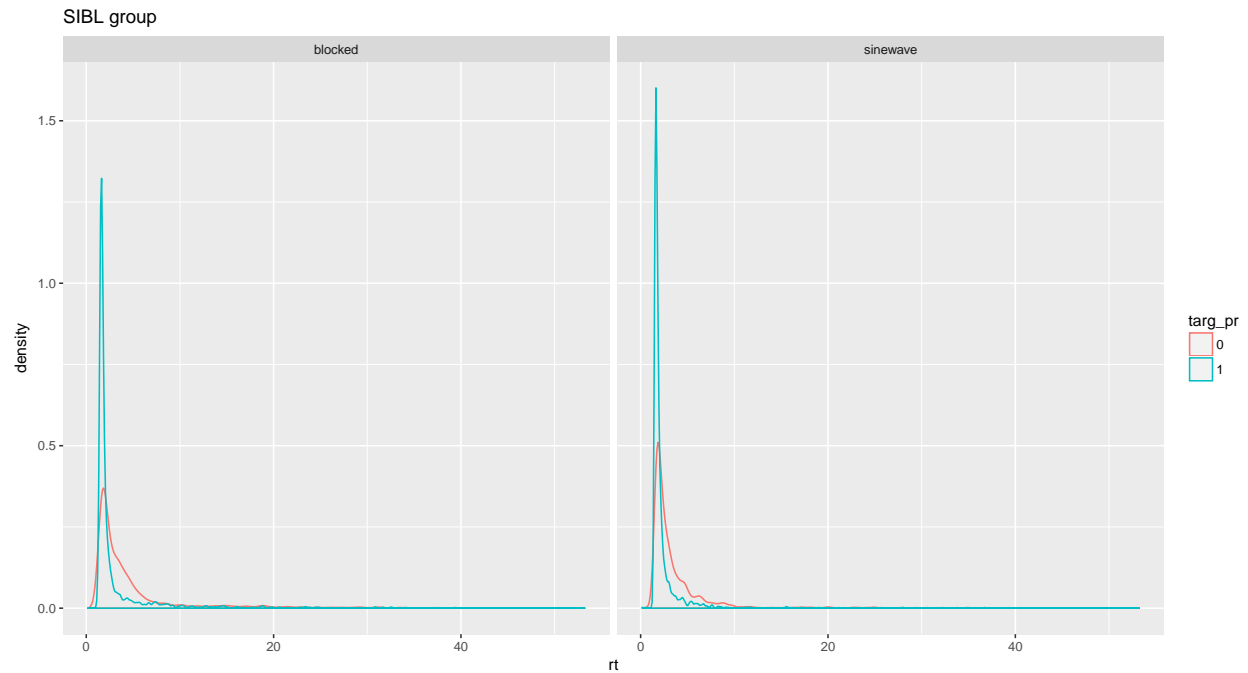


These are the density plots for Target absent and target present responses across groups and the block type.

density_plot_RABL

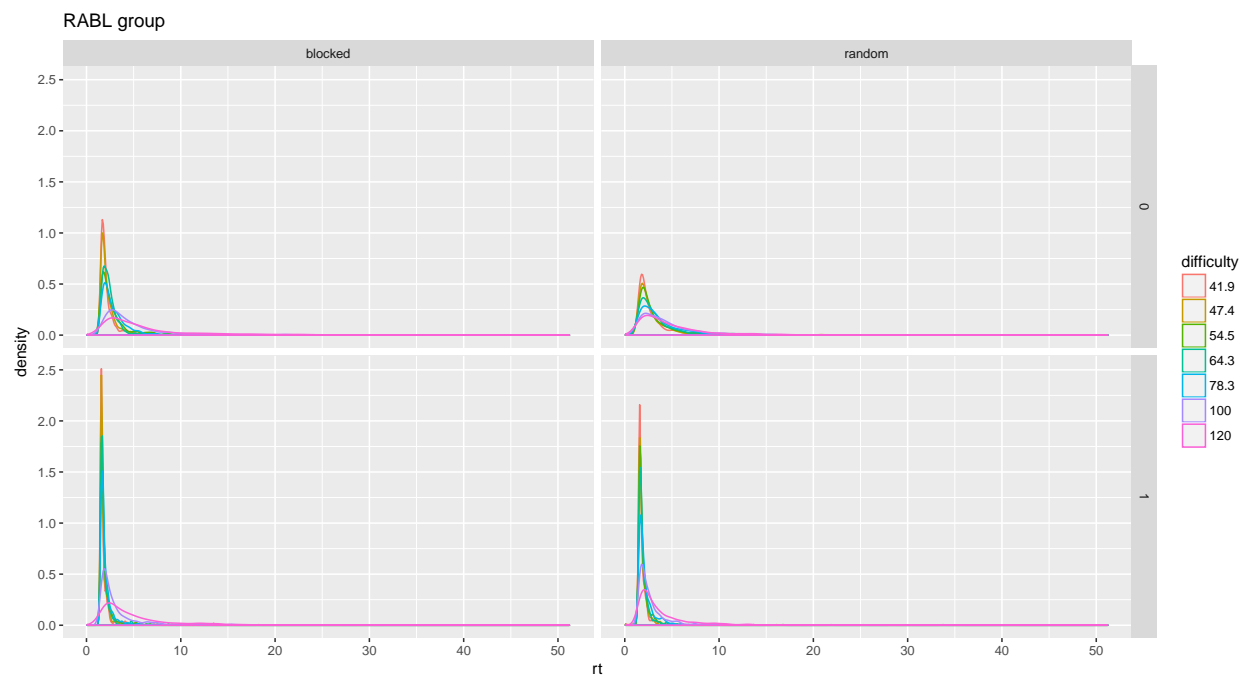


density_plot_SIBL



These are the plots when we distinguish across the different difficulty levels. For the purpose of these graphs, difficulty was treated as a “discrete” factor, but for the modelling this should be a continuous variable instead. I created a different data frame for these graphs so the main data frame (df) should remain unchanged.

`density_plot_RABL_diff`



`density_plot_SIBL_diff`

