Display items

```
library(tidyverse)
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr
        1.1.4
                     v readr
                                   2.1.5
v forcats 1.0.0 v stringr 1.5.1
v ggplot2 3.5.0 v tibble 3.2.1
v lubridate 1.9.3 v tidyr 1.3.1
v purrr
           1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()
                masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become
  library(here)
here() starts at /Users/caoanjie/Desktop/projects/mb1-africa
  library(papaja)
Loading required package: tinylabels
  library(kableExtra)
Attaching package: 'kableExtra'
The following object is masked from 'package:dplyr':
    group_rows
```

1. Demographic data

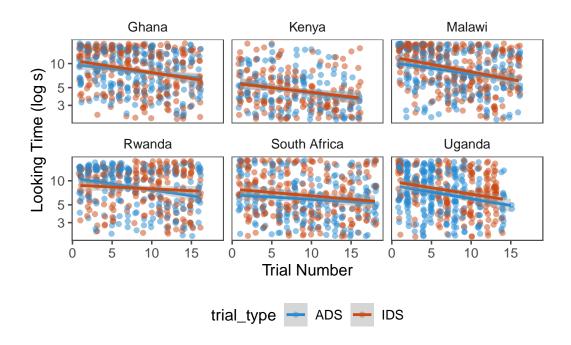
```
final_demog <- read_csv(here("processed_data/cached_data/final_demog.csv"))</pre>
Rows: 6 Columns: 17
-- Column specification ------
Delimiter: ","
chr (1): lab
dbl (16): tested_participant_n, mean_age, sd_age, Female, Male, gender_unkno...
i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
  final_demog %>%
    mutate_if(is.numeric, round, 2) %>%
    mutate(
      N = tested_participant_n,
      Age = paste0(mean_age, " (", sd_age, ")"),
      Sex = paste0("Female: ", Female, ";", "Male: ", Male, ";Unknown: ", gender_unknown),
      `Language Background` = pasteO("Monolingual: ", monolingual, ";", "Bilingual: ", bilingual: "
    ) %>%
    select(lab, N, Age, Sex, `Language Background`) %>% write_csv("temp.csv")
```

2. Main Figure

lgl (2): preterm, days_preterm

- i Use `spec()` to retrieve the full column specification for this data.
- i Specify the column types or set `show_col_types = FALSE` to quiet this message.

`geom_smooth()` using formula = 'y ~ x'



3. Table

```
q1_model <- readRDS(here("processed_data/cached_data/q1_model.Rds"))</pre>
q1_df <- q1_model %>% broom.mixed::tidy(conf.int = TRUE) %>%
 mutate_if(is.numeric, round, 2) %>%
 filter(effect == "fixed") %>%
 select(term, estimate, std.error, statistic, p.value) %>%
 mutate(
   term = case_when(
     term == "trial_typeIDS" ~ "Trial Type",
     term == "trial num centered" ~ "Trial Number",
     term == "age_months_scaled" ~ "Age",
     term == "trial_typeIDS:trial_num_centered" ~ "Trial Type * Trial Number",
     term == "trial num centered:age months scaled" ~ "Trial Number * Age",
     term == "trial_typeIDS:age_months_scaled" ~ "Trial Type * Age",
     TRUE ~ term
    )
 ) %>%
 mutate(
    # estimate = case_when(
      estimate == 0.00 ~ "< .01",
      TRUE ~ as.character(estimate)
    #),
    # std.error = case_when(
    # std.error == 0.00 ~ "< .01",
    # TRUE ~ as.character(estimate)
    #),
    p.value = case_when(
     p.value == 0.00 \sim "< .01",
     TRUE ~ as.character(estimate)
    )
 ) %>%
 rename(
   Term = term,
   Estimate = estimate,
   SE = std.error,
   t = statistic,
   p = p.value
 )
```

Loading required package: lmerTest

```
Loading required package: lme4
Loading required package: Matrix
Attaching package: 'Matrix'
The following objects are masked from 'package:tidyr':
    expand, pack, unpack
Attaching package: 'lmerTest'
The following object is masked from 'package:lme4':
    lmer
The following object is masked from 'package:stats':
    step
  q1_df %>%
    kable("latex", booktabs = TRUE,
          caption = "Regression coefficients with 95\\% CI",
          align = "lcccc") %>%
    kable_styling(latex_options = c("hold_position"),
                  font_size = 11)
```

Table 1: Regression coefficients with 95% CI

Term	Estimate	SE	t	p
(Intercept)	1.89	0.09	21.34	< .01
Trial Type	0.06	0.02	2.76	0.06
Trial Number	-0.03	0.00	-9.72	< .01
Age	-0.09	0.03	-3.40	< .01
Trial Type * Trial Number	0.00	0.00	-0.22	0
Trial Number * Age	0.00	0.00	1.60	0
Trial Type * Age	0.02	0.02	0.94	0.02