# **Grouping and summarizing**

## Steve Huguenin

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### Identify the duplicated row

library(tidyverse)

Identify the duplicated subject.

#### Compute basic statistics for all moral dilemma columns.

Compute the mean, the median, the standard deviation as well as min and max values. Find meaningful short names for the functions such as med for the median.

 $Assign \ {\tt judgments\_condition\_stats} \ to \ the \ results.$ 

```
-- Attaching core tidyverse packages ------ tidyverse 2.0.0 --
v dplyr 1.1.4 v readr 2.1.5
v forcats 1.0.1 v stringr 1.5.2
v ggplot2 4.0.0 v tibble 3.3.0
v lubridate 1.9.4 v tidyr 1.3.1
v purrr 1.1.0
-- 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 be
```

```
Rows: 188 Columns: 158
-- Column specification ------
Delimiter: "\t"
chr (5): start_date, end_date, condition, gender, logbook
dbl (153): finished, subject, age, mood_pre, mood_post, STAI_pre_1_1, STAI_p...
```

```
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.
```

```
judgments_condition_stats <- judgments |>
  mutate(
    across(matches("^moral_dilemma"), list(avg = mean, med = median, std = sd, min = min,
    .keep = "none"
  )
judgments_condition_stats
```

#### # A tibble: 188 x 35

```
moral_dilemma_dog_avg moral_dilemma_dog_med moral_dilemma_dog_std
                   <dbl>
                                          <dbl>
                    7.35
1
                                              8
                                                                  2.17
2
                                              8
                    7.35
                                                                  2.17
3
                    7.35
                                              8
                                                                  2.17
4
                    7.35
                                              8
                                                                  2.17
5
                    7.35
                                              8
                                                                  2.17
6
                    7.35
                                              8
                                                                  2.17
7
                                              8
                    7.35
                                                                  2.17
8
                    7.35
                                              8
                                                                  2.17
9
                    7.35
                                              8
                                                                  2.17
10
                    7.35
                                                                  2.17
# i 178 more rows
# i 32 more variables: moral_dilemma_dog_min <dbl>,
   moral_dilemma_dog_max <dbl>, moral_dilemma_wallet_avg <dbl>,
   moral_dilemma_wallet_med <dbl>, moral_dilemma_wallet_std <dbl>,
#
   moral_dilemma_wallet_min <dbl>, moral_dilemma_wallet_max <dbl>,
   moral_dilemma_plane_avg <dbl>, moral_dilemma_plane_med <dbl>,
```

#### Sort by groups

Find the number of subjects by age, gender and condition, e.g. how many 20 years of age females are in the stress group.

moral\_dilemma\_plane\_std <dbl>, moral\_dilemma\_plane\_min <dbl>, ...

Sort the resulting tibble such that the condition that contains the most populous group is sorted first (i.e. stress or control appear together).

```
judgments |>
  group_by(age, gender, condition, .add = FALSE, .drop = TRUE) |>
  tally(sort=TRUE)
```

```
# A tibble: 33 \times 4
# Groups: age, gender [20]
     age gender condition
   <dbl> <chr> <chr>
                           <int>
      18 female stress
                              27
 2
      18 female control
                              25
 3
      19 female stress
                              19
 4
      19 female control
                              17
 5
      20 female stress
                              14
      22 female stress
 6
                               9
                               7
 7
      18 male
                 {\tt control}
 8
                               7
      21 female control
 9
      20 male
                 control
                               6
10
                               5
      17 female stress
# i 23 more rows
```

Ensure that the resulting tibble does not contain groups.