lab 7

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commit 1 (code hidden)

commit 3

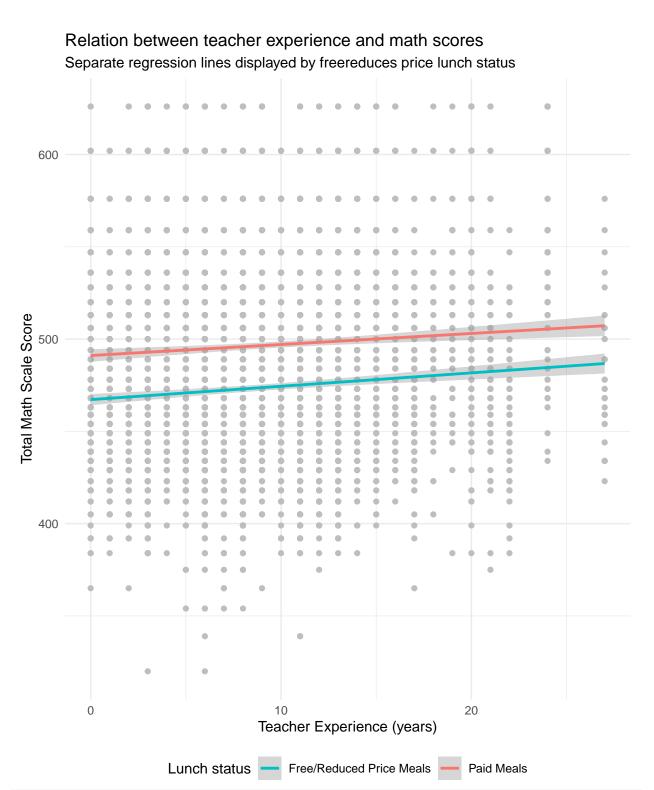
```
head(star)
     schidkn sex frl reg_size reg_size_aid small_size white black other totexp
## 1
          63 girl no
                             0
                                           0
                                                             1
                                                      1
## 2
          20 girl no
                             0
                                           0
                                                      1
                                                             0
                                                                   1
                                                                         0
                                                                               21
## 3
                             0
                                                      0
                                                             0
                                                                   1
                                                                         0
                                                                                0
          19 boy yes
                                           1
                                           0
                                                      0
## 4
          69 boy no
                             1
                                                             1
                                                                               16
## 5
          79 boy yes
                             0
                                           0
                                                      1
                                                                   0
                                                                         0
                                                                                5
                                                             1
           5 boy yes
                                           0
                                                                                8
## 6
                                                                   0
                                                                         0
##
    tmathss treadss
## 1
         473
## 2
         536
                 450
## 3
         463
                 439
## 4
         559
                 448
## 5
         489
                 447
## 6
         454
                 431
star1 <- star %>%
  group_by(sex, frl) %>%
  summarize(math_mean = mean(tmathss),
math_sd = sd(tmathss),
rdg_mean = mean(treadss),
rdg_sd = sd(treadss))
## `summarise()` has grouped output by 'sex'. You can override using the `.groups`
## argument.
as.tibble(star1)
## Warning: `as.tibble()` was deprecated in tibble 2.0.0.
## Please use `as_tibble()` instead.
## The signature and semantics have changed, see `?as_tibble`.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was generated.
## # A tibble: 4 x 6
##
                 math_mean math_sd rdg_mean rdg_sd
     sex
           frl
##
     <chr> <chr>
                     <dbl>
                             <dbl>
                                       <dbl>
                                             <dbl>
## 1 boy
                      493.
                               46.3
                                        441.
                                               32.3
           no
## 2 boy
           yes
                      470.
                               46.1
                                        425.
                                               26.6
```

```
## 3 girl no 501. 46.0 449. 34.5
## 4 girl yes 478. 46.3 431. 27.4
```

The scores 492.8523316, 469.8716312, 501.2057383, 477.5084249 represent (in order) the mean math scores for boys without, boys with, and girls without, and girls with free or reduced price lunches in this data sample. The standard deviation of the math mean scores 46.338454, 46.0928474, 45.9621047, 46.3045917 represent (in order) the standard deviation of math scores for boys without, boys with, and girls without, and girls with free or reduced price lunches in this data sample. The scores 441.4553109, 425.3794326, 448.5353394, 430.8029304 represent the mean reading scores for boys without, boys with, and girls without, and girls with free or reduced price lunches in this sample. And the standard deviation of reading scores 32.3182782, 26.6293061, 34.5240292, 27.4212547 represent the standard deviation of reading scores for boys without, boys with, and girls without, and girls with free or reduced price lunches in this data sample.

commit 4

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



#dominiks version
#test