Reproducible documents

Malene

## Table of results

2 + 2

[1] 4

library(tidyverse)

── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
✔ dplyr 1.1.2 ✔ readr 2.1.4  
✔ forcats 1.0.0 ✔ stringr 1.5.0  
✔ ggplot2 3.4.2 ✔ tibble 3.2.1  
✔ lubridate 1.9.2 ✔ tidyr 1.3.0  
✔ purrr 1.0.1   
── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
✖ dplyr::filter() masks stats::filter()  
✖ dplyr::lag() masks stats::lag()  
ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(NHANES)  
nhanes\_small <- read\_csv(here::here("data/nhanes\_small.csv"))

Rows: 10000 Columns: 8  
── Column specification ────────────────────────────────────────────────────────  
Delimiter: ","  
chr (4): gender, diabetes, phys\_active, education  
dbl (4): age, bmi, bp\_sys\_ave, bp\_dia\_ave  
  
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.

nhanes\_small

# A tibble: 10,000 × 8  
 age gender bmi diabetes phys\_active bp\_sys\_ave bp\_dia\_ave education   
 <dbl> <chr> <dbl> <chr> <chr> <dbl> <dbl> <chr>   
 1 34 male 32.2 No No 113 85 High School   
 2 34 male 32.2 No No 113 85 High School   
 3 34 male 32.2 No No 113 85 High School   
 4 4 male 15.3 No <NA> NA NA <NA>   
 5 49 female 30.6 No No 112 75 Some College  
 6 9 male 16.8 No <NA> 86 47 <NA>   
 7 8 male 20.6 No <NA> 107 37 <NA>   
 8 45 female 27.2 No Yes 118 64 College Grad  
 9 45 female 27.2 No Yes 118 64 College Grad  
10 45 female 27.2 No Yes 118 64 College Grad  
# ℹ 9,990 more rows

# Table of results

nhanes\_small %>%  
 filter(!is.na(diabetes), !is.na(education)) %>%  
 group\_by(diabetes, education) %>%  
 summarise(  
 mean\_age = mean(age, na.rm = TRUE),  
 mean\_bmi = mean(bmi, na.rm = TRUE)  
 ) %>%  
 ungroup() %>%  
 knitr::kable(caption = "Mean values of Age and BMI for each education and diabetes status.")

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

Mean values of Age and BMI for each education and diabetes status.

| diabetes | education | mean\_age | mean\_bmi |
| --- | --- | --- | --- |
| No | 8th Grade | 51.81766 | 28.78890 |
| No | 9 - 11th Grade | 46.31114 | 28.59544 |
| No | College Grad | 46.01740 | 27.32727 |
| No | High School | 46.05843 | 28.87320 |
| No | Some College | 43.75380 | 28.73739 |
| Yes | 8th Grade | 63.00000 | 31.96500 |
| Yes | 9 - 11th Grade | 61.35238 | 33.06810 |
| Yes | College Grad | 60.56250 | 31.28643 |
| Yes | High School | 59.62424 | 33.81110 |
| Yes | Some College | 58.85965 | 33.01300 |

Cute kitten in [Figure 1](#fig-kitten-attack) !

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| --- |
| Figure 1: Kitten attacking flowers! |

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