Reproducible documents

Malene

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

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 value of Age and BMI for each education and diabetes status.")

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

Mean value 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)!

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