1. Data visualization

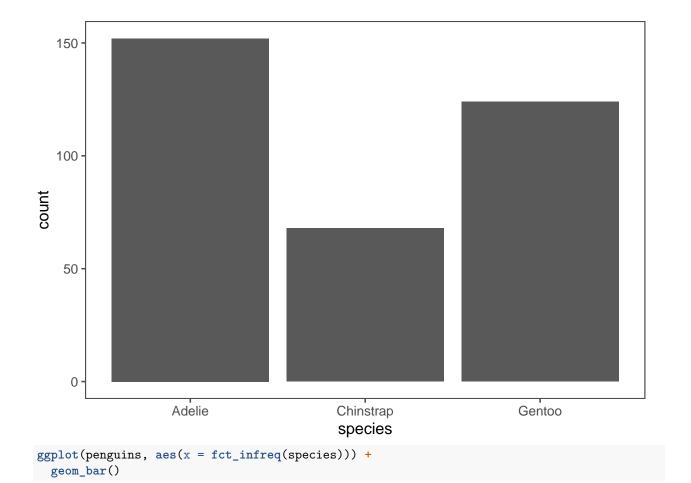
2024-07-10

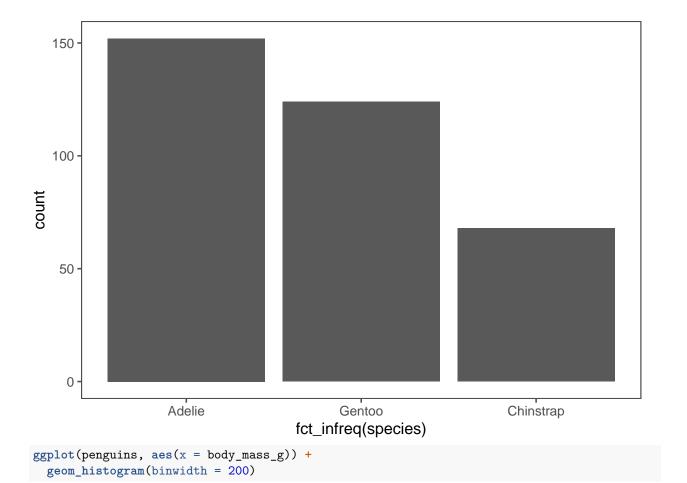
```
library(ggplot2)
library(ggthemes)
custom_ggplot <- function(...) {</pre>
     ggplot(...) +
          scale_color_colorblind()
}
theme_set(theme_few())
set.seed(123)
library(tidyverse)
## -- Attaching core tidyverse packages -
                                                                                                                                                     ----- 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 lubridate 1.9.3
                                                                                                3.2.1
                                                                v tibble
## v purrr
                                      1.0.2
                                                                v tidyr
                                                                                                1.3.1
## -- 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 error
library(palmerpenguins)
glimpse(penguins)
## Rows: 344
## Columns: 8
## $ species
                                                           <fct> Adelie, Adelie, Adelie, Adelie, Adelie, Adelie, Adelia, 
## $ island
                                                            <fct> Torgersen, Torgersen, Torgersen, Torgersen, Torgerse~
## $ bill_length_mm
                                                           <dbl> 39.1, 39.5, 40.3, NA, 36.7, 39.3, 38.9, 39.2, 34.1, ~
## $ bill depth mm
                                                           <dbl> 18.7, 17.4, 18.0, NA, 19.3, 20.6, 17.8, 19.6, 18.1, ~
## $ flipper_length_mm <int> 181, 186, 195, NA, 193, 190, 181, 195, 193, 190, 186~
                                                            <int> 3750, 3800, 3250, NA, 3450, 3650, 3625, 4675, 3475, ~
## $ body_mass_g
## $ sex
                                                           <fct> male, female, female, NA, female, male, female, male~
                                                            <int> 2007, 2007, 2007, 2007, 2007, 2007, 2007, 2007, 2007
## $ year
```

1.4 Visualizing distributions

A categorical variable

```
ggplot(penguins, aes(x = species)) +
geom_bar()
```





Warning: Removed 2 rows containing non-finite outside the scale range
(`stat_bin()`).

