

# Data manipulation

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# Acknowledgements

The content of this module are based on materials from:

olivier gimenez's materials

CHINSTRAP!



GENTOO!



ADÉLIE!



@allison\_horst

# Motivation

We use data from package `palmerpenguins` to familiarize ourselves with data manipulation with the tidyverse. We first load the packages we will need.

```
library(palmerpenguins)  
library(tidyverse)
```

# Question 1

- a. Display the data `penguins`.
- b. Make sure you understand the columns we have in this dataset.
- c. Filter out penguins for which sex is missing.
- d. Select variables `species`, `island`, `bill_length_mm` and `body_mass_g`.
- e. Store the new dataset in a `dat` object.

## Question 2

- a. How many penguins do we have in the dataset?
- b. How many species?
- c. How many islands?
- d. Count the number of penguins per species.
- e. Count the number of penguins per species and per island.

# Question 3

- a. Calculate the overall mean body mass.
- b. Calculate the mean body mass for each species.
- c. Calculate the mean of both traits bill length and body mass measured for each species.