

# My Reproducible Manuscript

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## Preparation

```
# Load penguins  
library(ggplot2)
```

Warning: package 'ggplot2' was built under R version 4.4.3

```
# Read data  
penguins <- read.csv("../data/data.csv")  
  
#import function do_addtion from script  
source("../scripts/do_addition.R")
```

## Meet Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## Meet the penguins

The penguins data from the [palmerpenguins](#) package contains size measurements for 344 penguins from three species observed on three islands in the Palmer Archipelago, Antarctica.

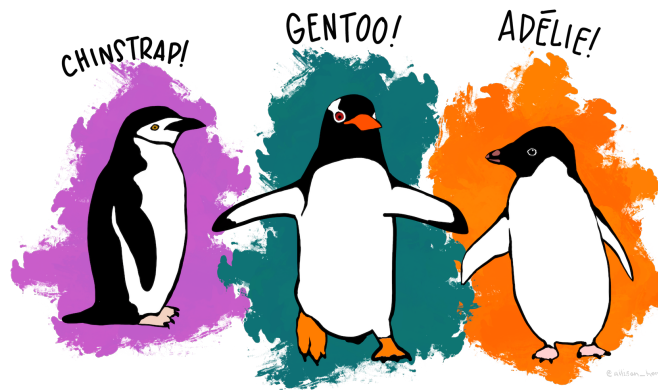


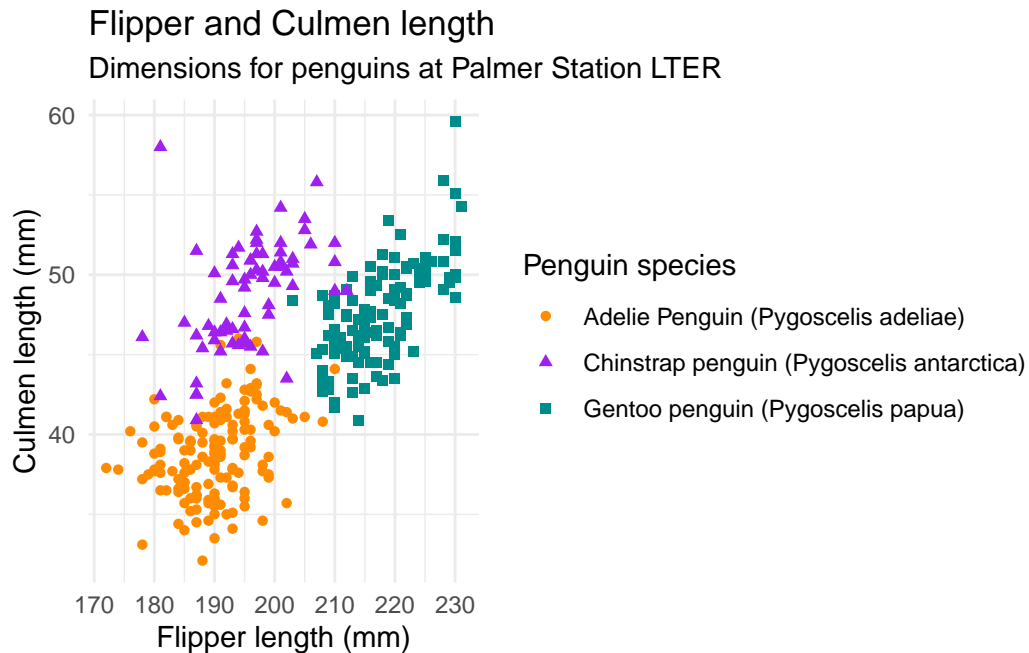
Figure 1: LTER penguins illustration by Allison Horst

## Results

A nice little plot.

```
# Plot penguins
ggplot(penguins,
  aes(x = `Flipper.Length..mm.`, y = `Culmen.Length..mm.`)) +
  geom_point(aes(color = Species, shape = Species)) +
  scale_color_manual(values = c("darkorange", "purple", "cyan4")) +
  labs(
    title = "Flipper and Culmen length",
    subtitle = "Dimensions for penguins at Palmer Station LTER",
    x = "Flipper length (mm)", y = "Culmen length (mm)",
    color = "Penguin species", shape = "Penguin species"
  ) +
  theme_minimal()
```

Warning: Removed 2 rows containing missing values or values outside the scale range (``geom_point()``).



### In line code

Now we're going to calculate the sum of 25 and 25 using inline code: 50. Furthermore, we're going to report the number of observations in the penguins dataset for the "Chinstrap and Gentoo species respectively: 68,124.

Now for the most important calculation of them all. Flipper length! The average flipper length of all penguins is 200.92.

### Testing the addition function

We can also use the addition function defined in the `do_addition.R` script to add two numbers together. For example, again adding 25 and 25 gives us 50. It works!

### References

Here is a citation for the palmerpenguins package (Horst, Hill, and Gorman 2022).

Here's another citation (Chis-Ciure and Levin 2025)

Chis-Ciure, Robert, and Michael Levin. 2025. "Cognition All the Way down 2.0: Neuroscience Beyond Neurons in the Diverse Intelligence Era." *Synthese* 206 (5): 1–31.

Horst, Allison, Alison Hill, and Kristen B. Gorman. 2022. “Palmer Archipelago Penguins Data in the Palmerpenguins R Package - An Alternative to Anderson’s Irises.” *The R Journal* 14 (June): 244–54. <https://doi.org/10.32614/RJ-2022-020>.