My Reproducible Manuscript

M.L.G. van Dam

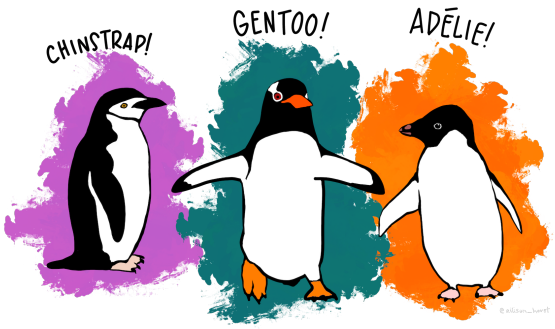
```
# Load penguins
library(ggplot2)
```

```
Warning: package 'ggplot2' was built under R version 4.3.2
```

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 (Horst, Hill, and Gorman 2022) contains size measurements for `344` penguins from three species observed on three islands in the Palmer Archipelago, Antarctica R Core Team (2023).

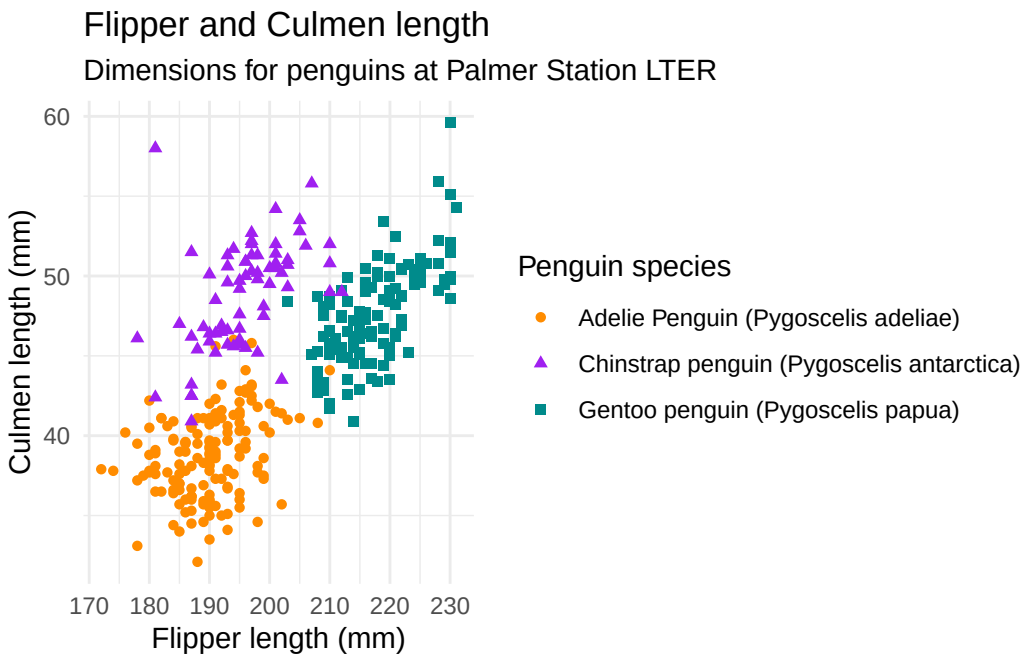
The plot below shows the relationship between flipper and bill lengths of these penguins.

Results

```r
# Read data
penguins <- read.csv("data/data.csv")

# 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()`).
```



50 and another inline code for the number of Chinstrap penguins: 68, and a simple calculation: 2.

```r
do_addition <- function(number1, number2){

        # Check that arguments provided are numberic
        if(class(number1) != "numeric" | class(number2) != "numeric"){
                print("Error: one or more of your inputs are not numeric")

        # Perform simple addition and return the result
        } else{
                result <- number1 + number2
                return(result)
        }
}
```

```r
do_addition(1,2)
```

```
[1] 3
```


Horst, Allison M., Alison P. Hill, and Kristin B. Gorman. 2022. "Palmer Archipelago Penguins Data in the Palmerpenguins r Package–an Alternative to Anderson's Irises." *The R Journal* 14 (1): 29–36. https://journal.r-project.org/archive/2022/RJ-2022-001/index.html.

R Core Team. 2023. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.