

My Reproducible Manuscript

Paolo Colussi

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. “Palmerpenguins R Data Package • Palmerpenguins” (n.d.)

If you want to know more about penguins, check out the this article: Subramanian et al. (2013)

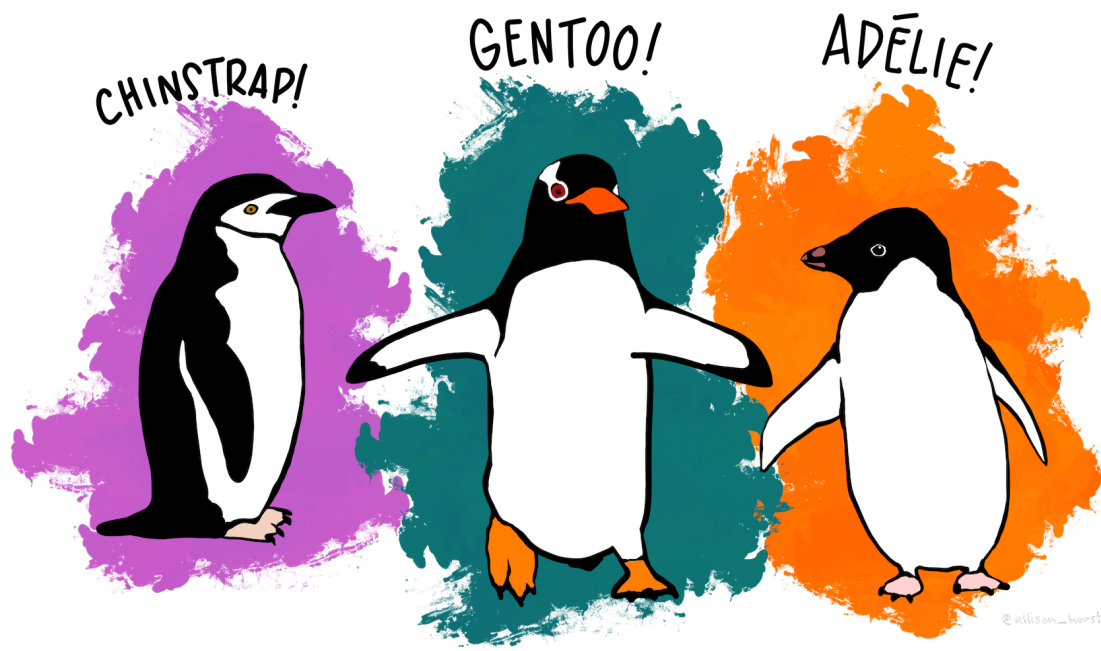


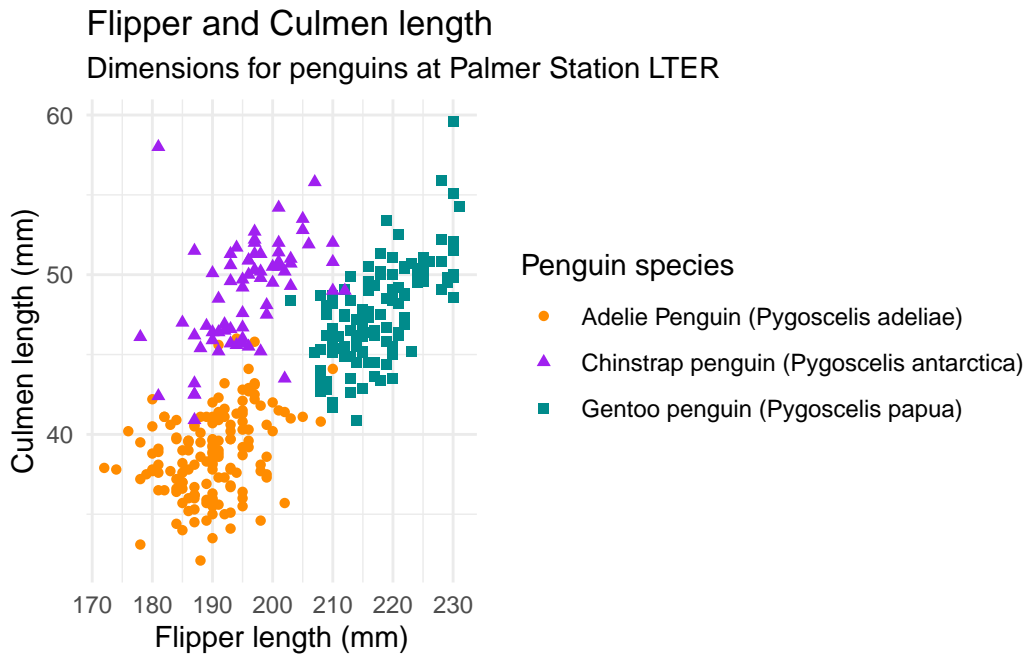
Figure 1: penguins

Results

```
# 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()`).



There are more than 50 in total, and 124 Gentoo penguins and 68 Chinstrap penguins.

```
do_addition <- function(number1, number2){  
  
  # Check that arguments provided are numeric  
  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)  
  }  
}
```

```
do_addition(1,1)
```

```
[1] 2
```

“Palmerpenguins R Data Package • Palmerpenguins.” n.d. Accessed November 18, 2025.

Subramanian, Sankar, Gabrielle Beans-Picón, Siva K. Swaminathan, Craig D. Millar, and David M. Lambert. 2013. “Evidence for a Recent Origin of Penguins.” *Biology Letters* 9 (6): 20130748. <https://doi.org/10.1098/rsbl.2013.0748>.