Emory NRSG 736: Quantitative Analysis of Clinical Research Data

Week 01: Welcome and Introductions

Load some R packages

```
library(palmerpenguins)
library(dplyr)
library(ggplot2)
```

```
ggplot(data = penguins,
       aes(x = bill_length_mm,
           y = bill_depth_mm,
           color = species)) +
  geom_point()
```

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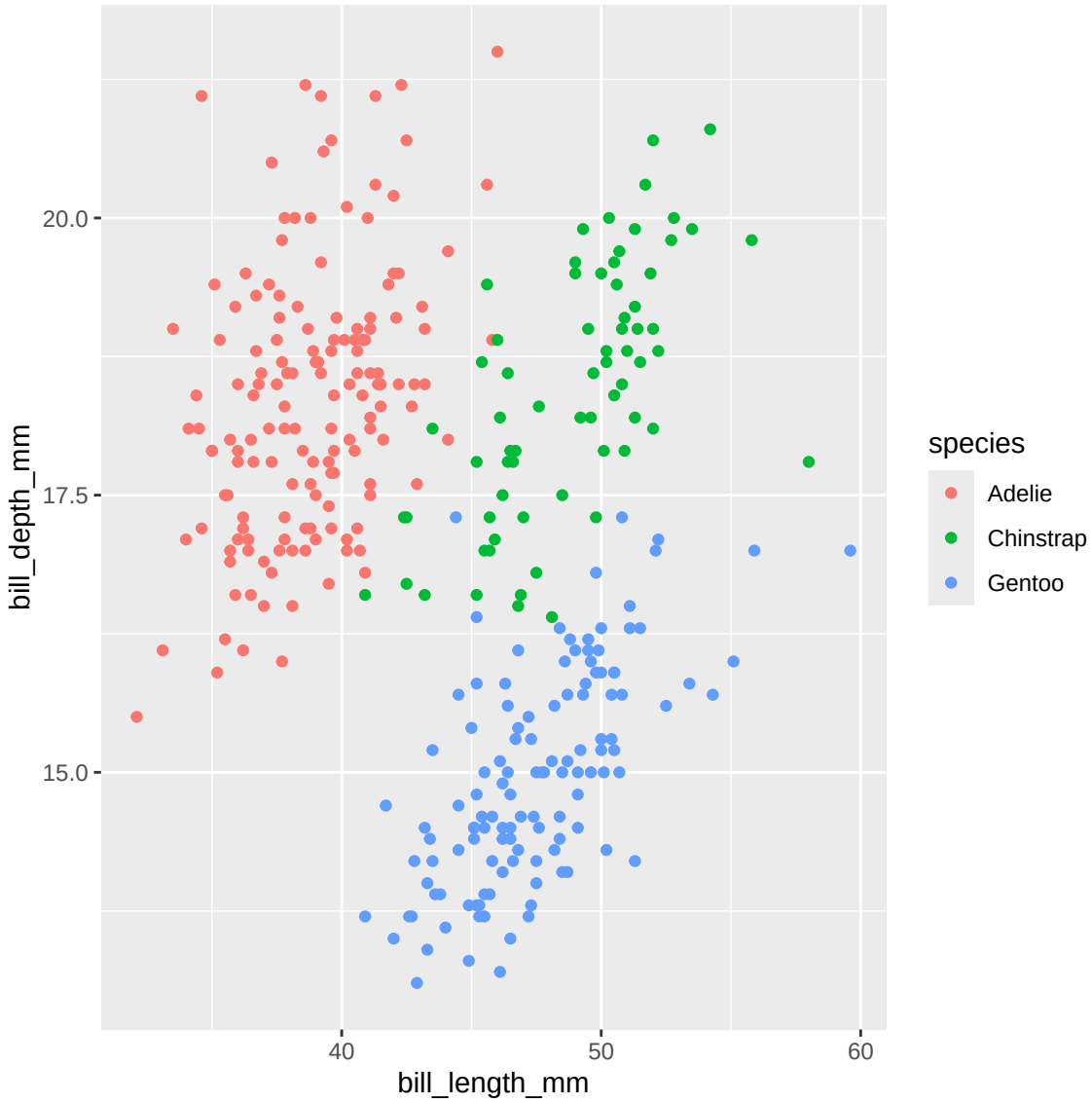
20.0
17.5
15.0
bill_depth_mm
40
50
60
bill_length_mm
species
Adelie
Chinstrap
Gentoo

Placeholder boilerplate.

To learn more about Quarto websites visit https://quarto.org/docs/websites.

```
1 + 1
```

```
[1] 2
```

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Another section

subsection 1

cars summary stats

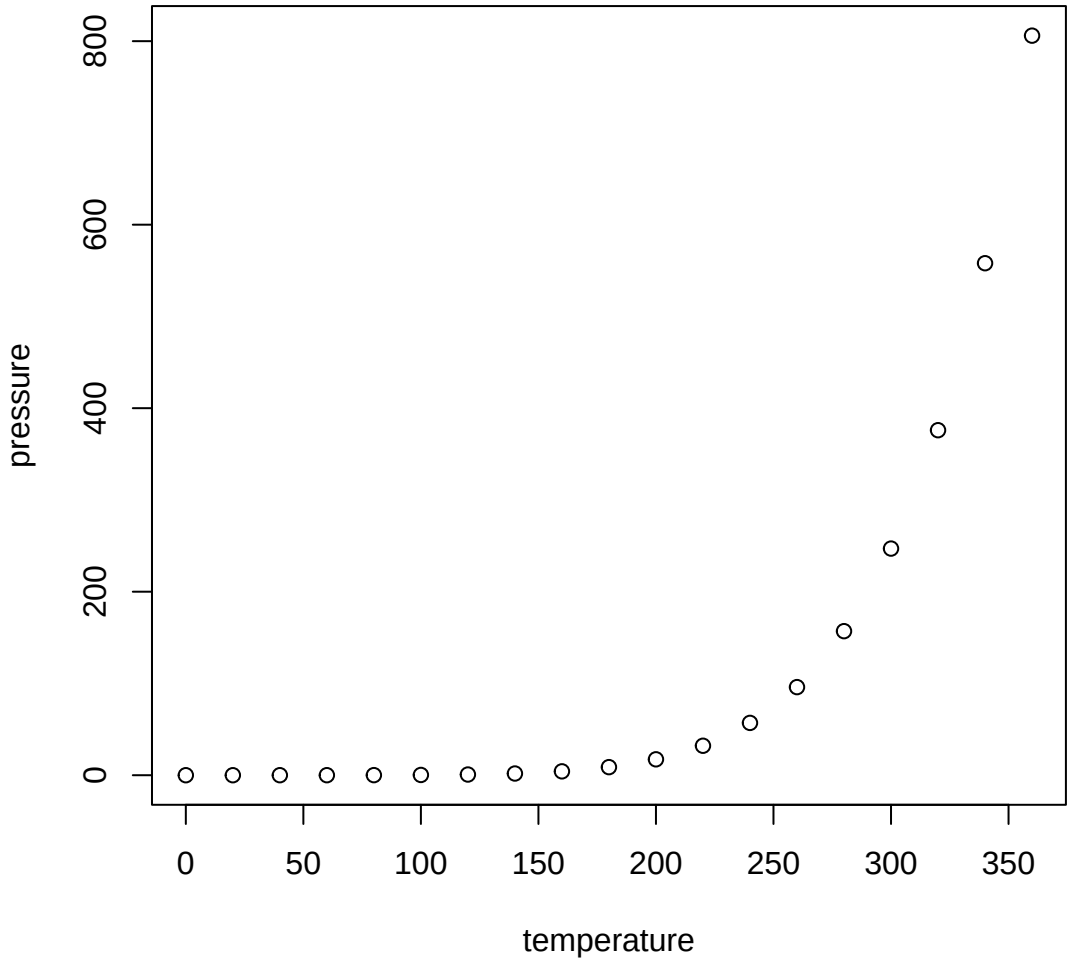
```
summary(cars)
```

```
     speed           dist       
 Min.   : 4.0   Min.   :  2.00  
 1st Qu.:12.0   1st Qu.: 26.00  
 Median :15.0   Median : 36.00  
 Mean   :15.4   Mean   : 42.98  
 3rd Qu.:19.0   3rd Qu.: 56.00  
 Max.   :25.0   Max.   :120.00  
```

subsection 2

plots

```
plot(pressure)
```



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R Code For This Module

add later maybe

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References

Horst, Allison, Alison Hill, and Kristen Gorman. 2022. *Palmerpenguins: Palmer Archipelago (Antarctica) Penguin Data*. https://allisonhorst.github.io/palmerpenguins/.

R Core Team. 2025. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.

Wickham, Hadley. 2016. *Ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. https://ggplot2.tidyverse.org.

Wickham, Hadley, Winston Chang, Lionel Henry, Thomas Lin Pedersen, Kohske Takahashi, Claus Wilke, Kara Woo, Hiroaki Yutani, Dewey Dunnington, and Teun van den Brand. 2024. *Ggplot2: Create Elegant Data Visualisations Using the Grammar of Graphics*. https://ggplot2.tidyverse.org.

Wickham, Hadley, Romain François, Lionel Henry, Kirill Müller, and Davis Vaughan. 2023. *Dplyr: A Grammar of Data Manipulation*. https://dplyr.tidyverse.org.

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Other Helpful Resources

other stuff here maybe

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