

PENGUIN SPECIES EDA

Adelie



Chinstrap



Gentoo



OBJECTIVES

1

Study the different species of the penguins.

2

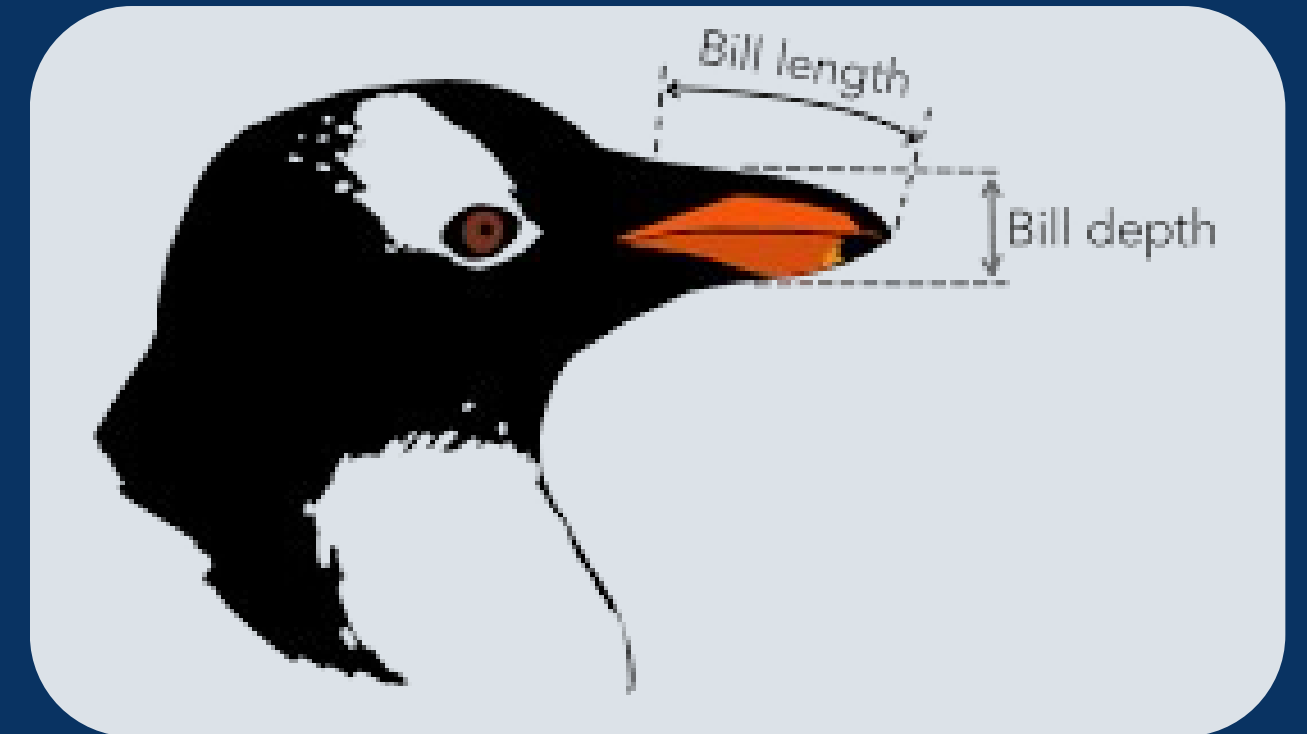
Find the significant differences between the species.

3

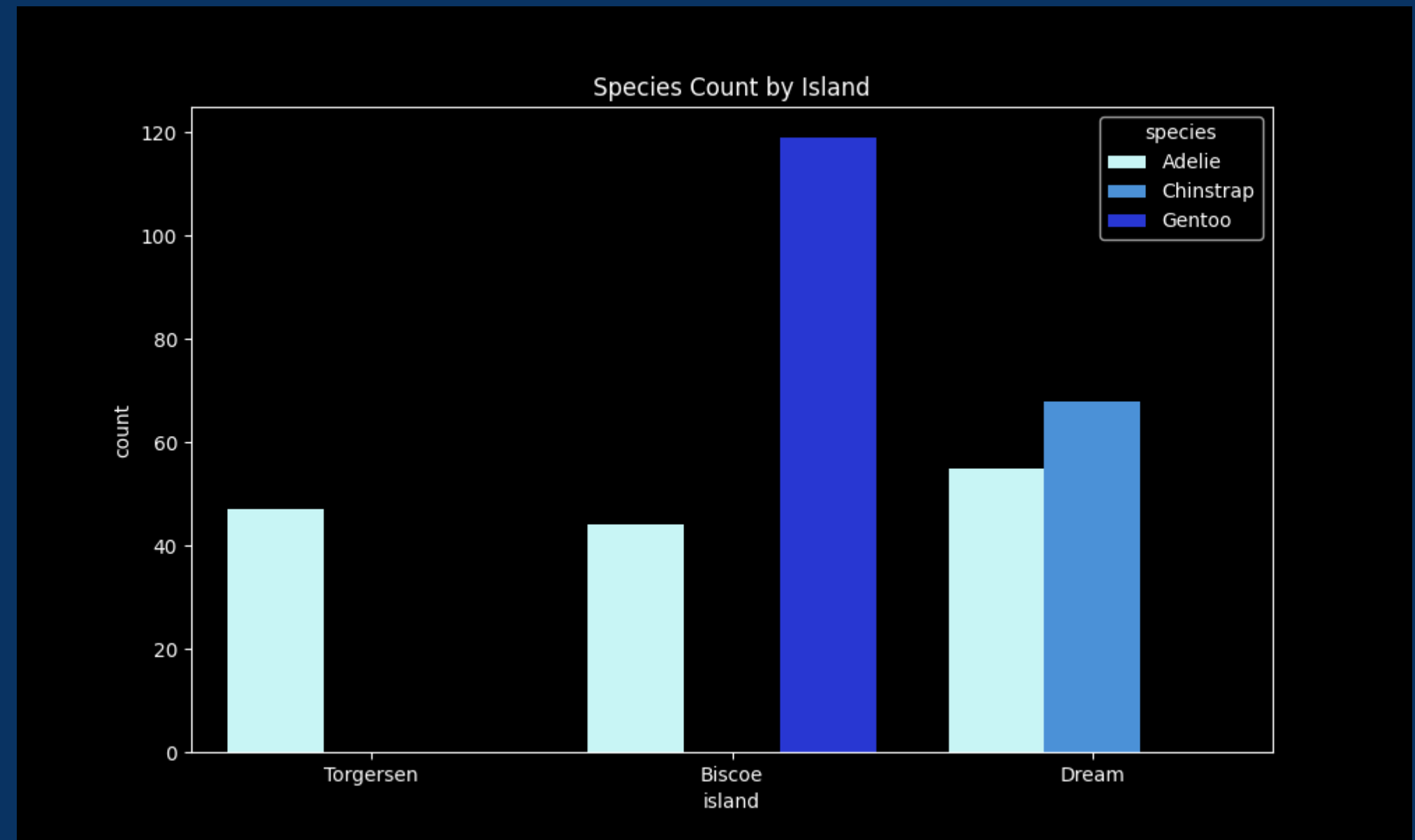
Show valuable insights based on the Exploratory Data Analysis.

VARIABLES

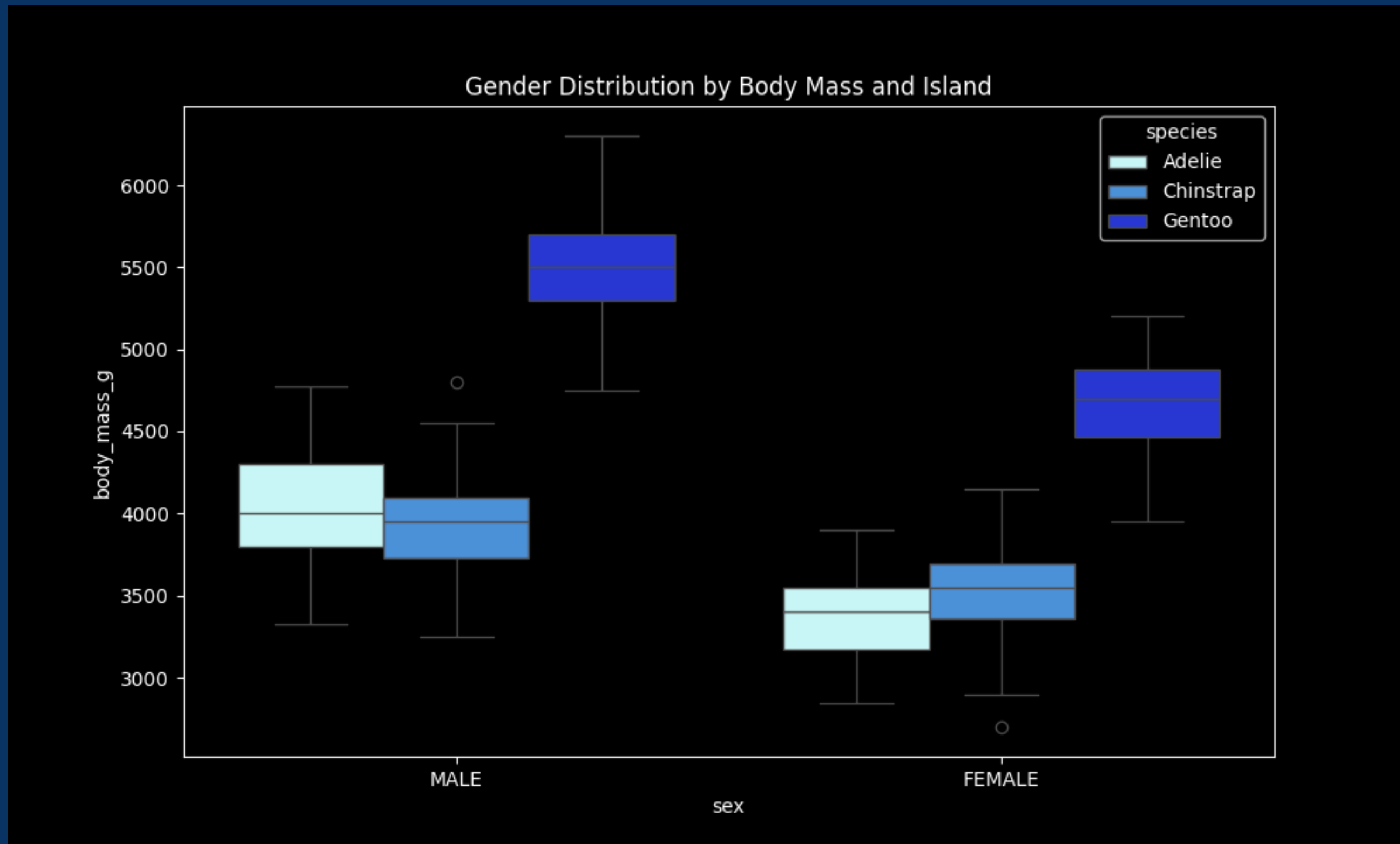
- Species
- Island
- Bill Length mm
- Bill Depth mm
- Flipper Length mm
- Body Mass g
- Sex



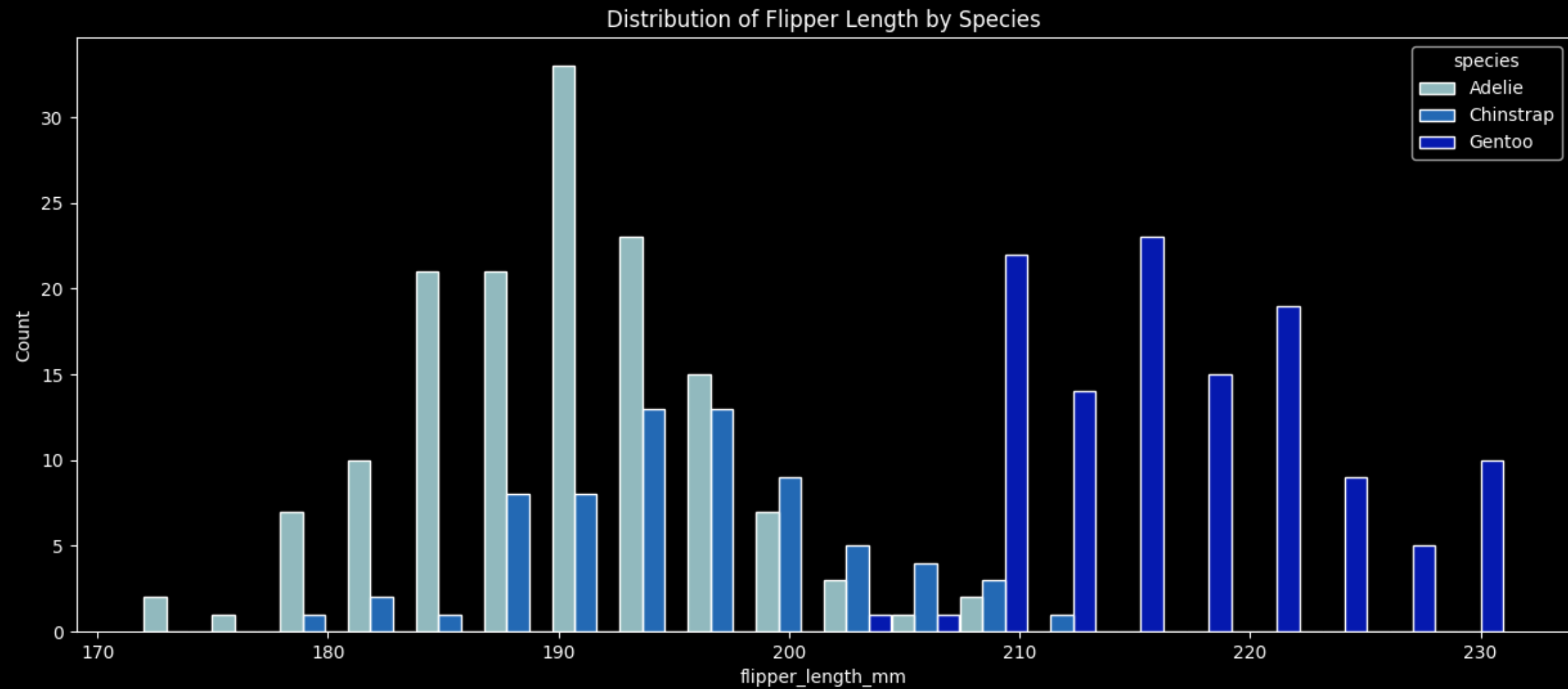
PENGUINS PALMER ARCHIPELAGO



GENDER DISTRIBUTION BY BODY MASS

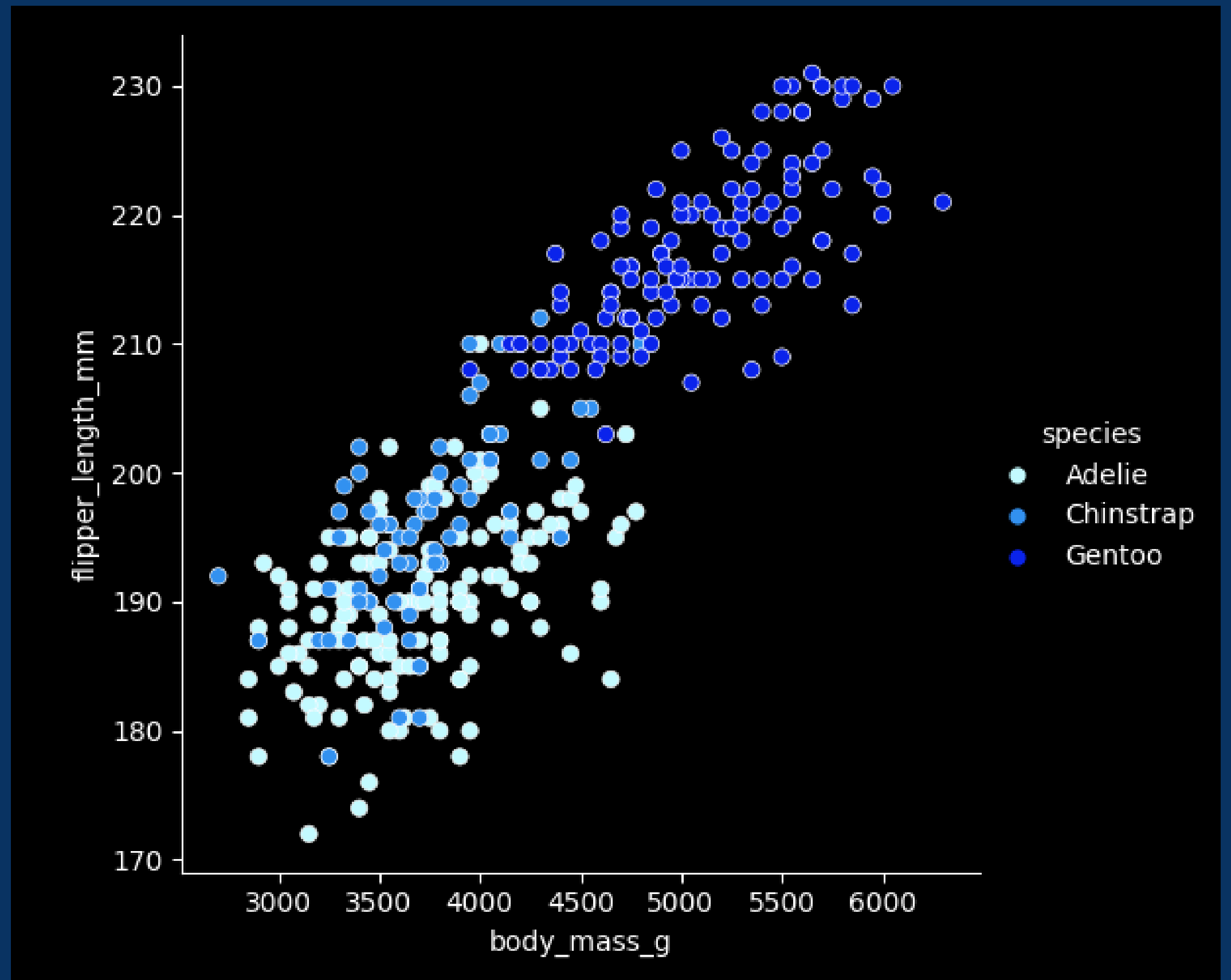


FLIPPER LENGTH

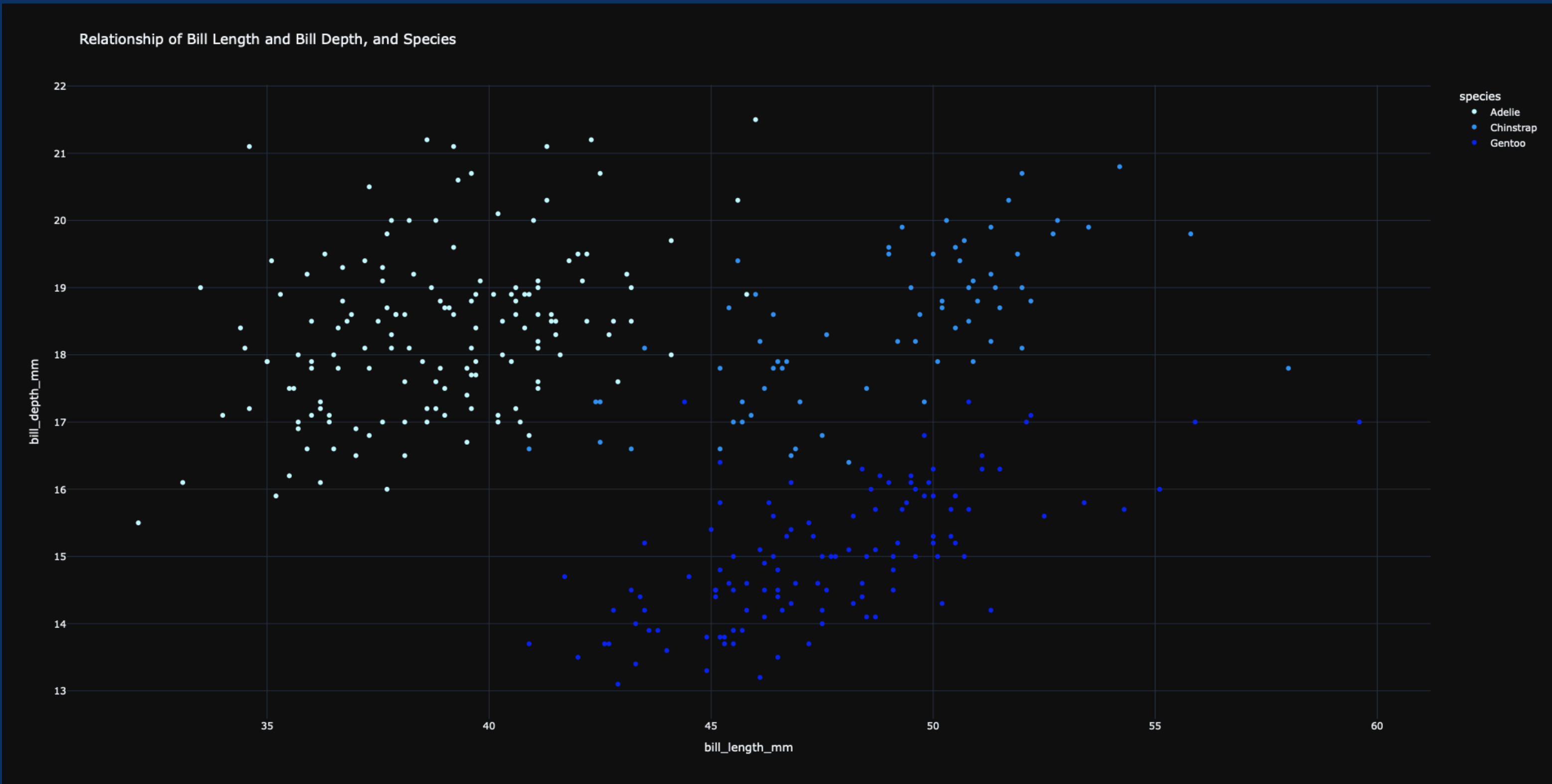


FLIPPER LENGTH BY BODY MASS

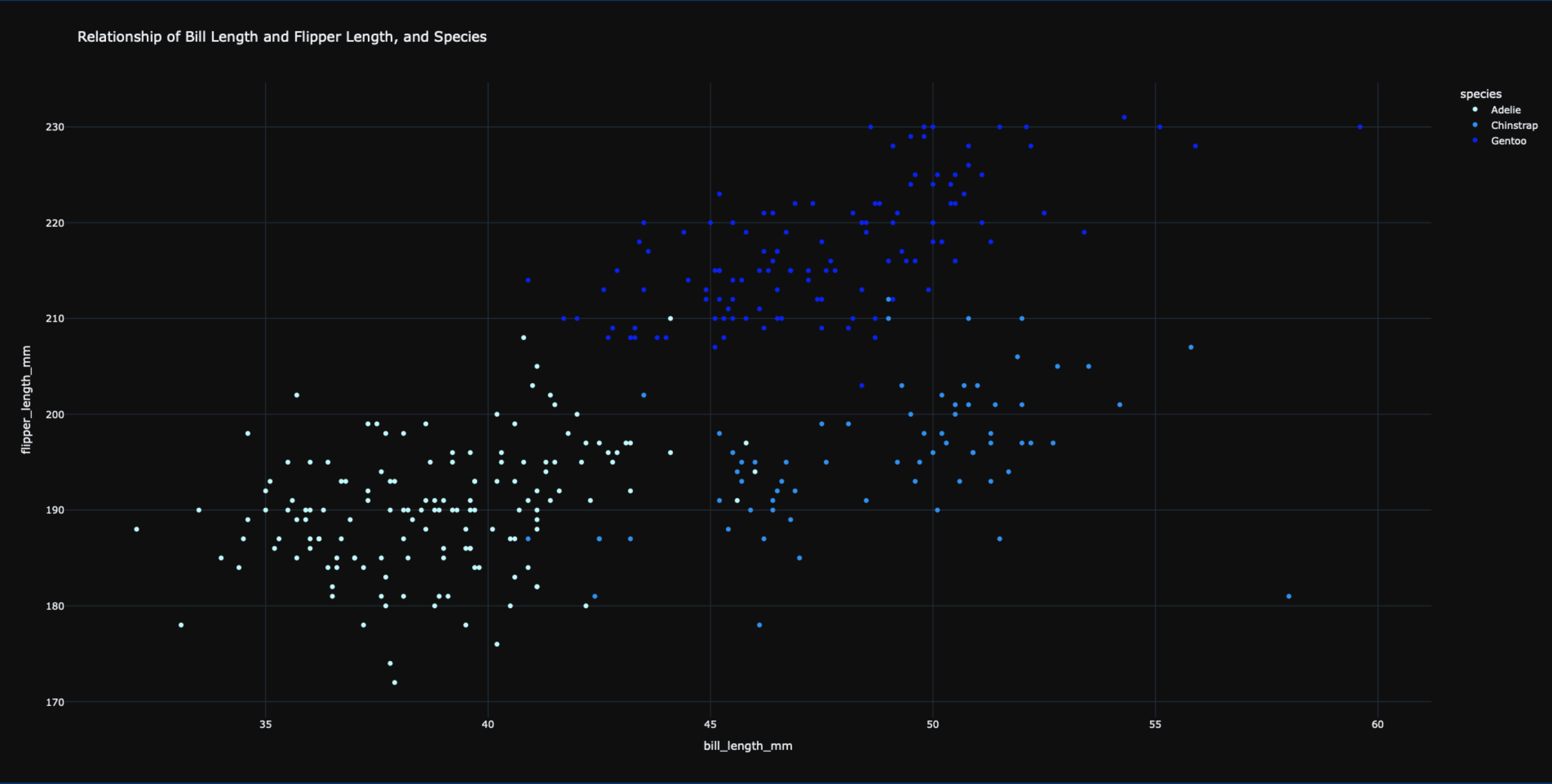
- **Gentoo** Penguins have bigger flipper length as well as higher body mass.
- **Adeline & Chinstrap** Penguins have generally smaller flipper length and body mass.
- There is a **positive correlation** with the Flipper Length and the Body Mass of the penguins analysed.



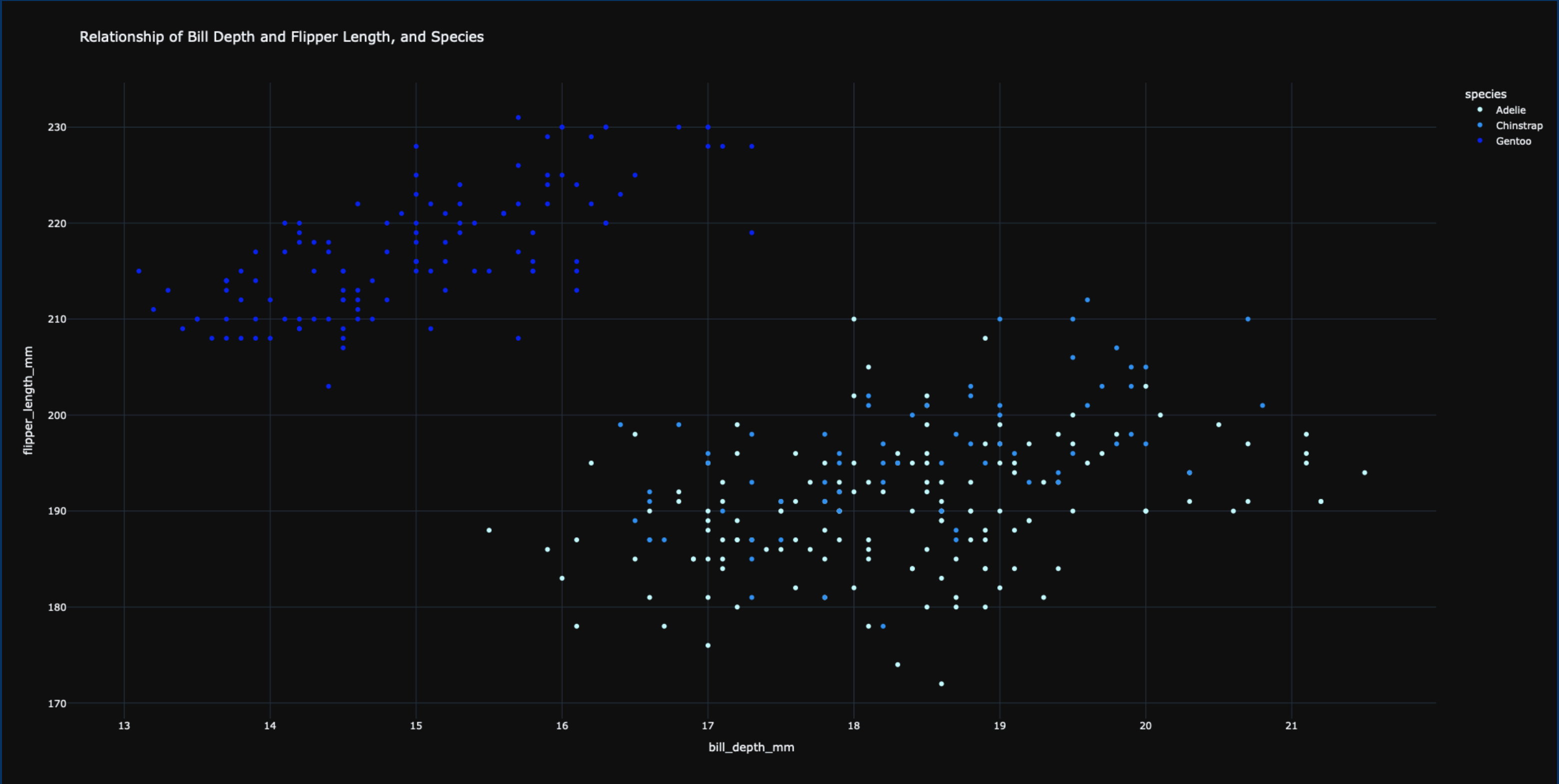
RELATIONSHIP BILL LENGTH & DEPTH



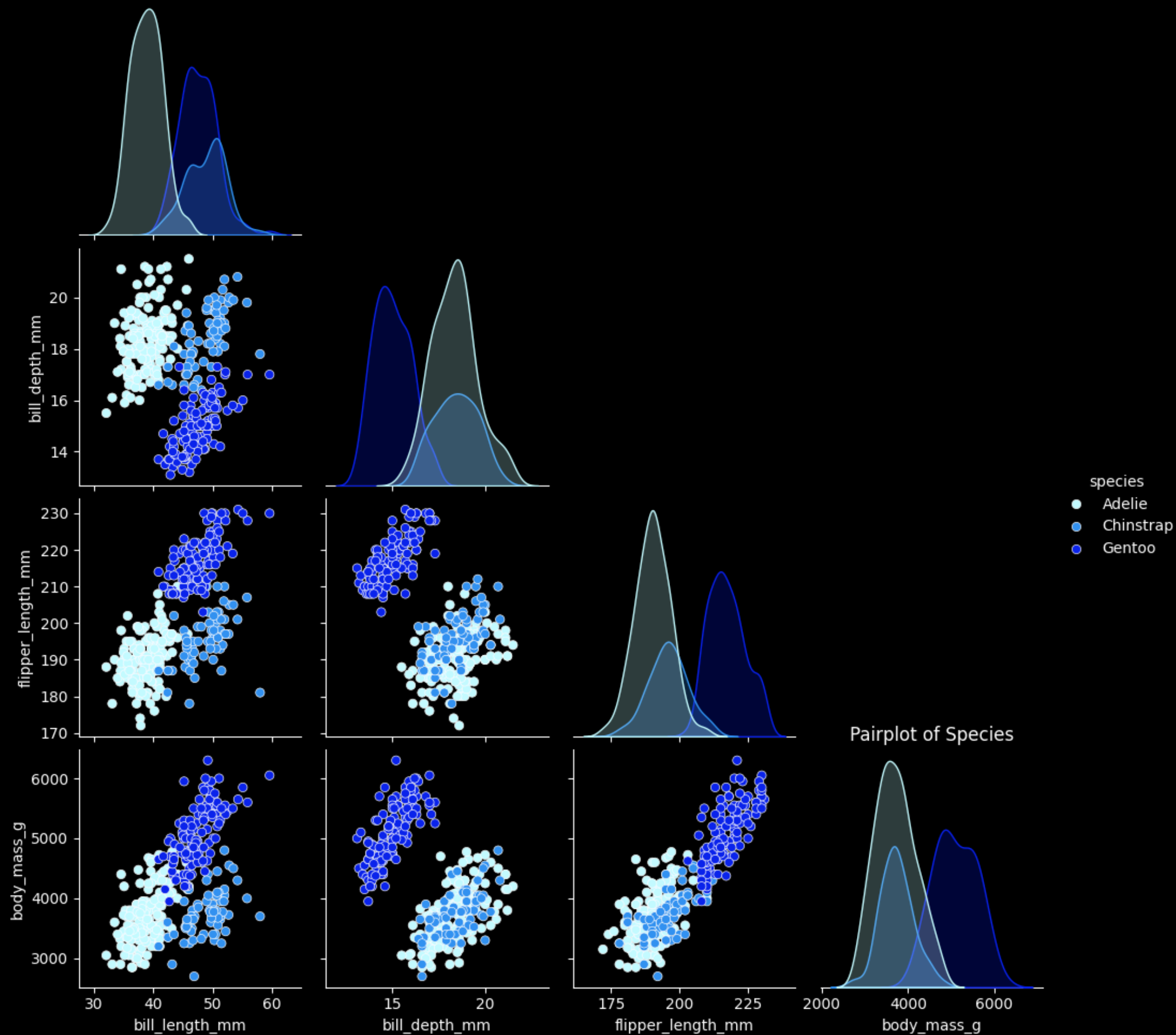
RELATIONSHIP BILL LENGTH & FLIPPER LENGTH



RELATIONSHIP BILL DEPTH & FLIPPER LENGTH



PAIRPLOT



FINDINGS

1

The Bill Length and Depth depends on the species on the penguins change.

2

The longer the Bill Length is, the larger is the Flipper length.

3

When the Depth of the Bill increases, the Length of the Flipper decreases.

THANK YOU

Do you have any questions?

