

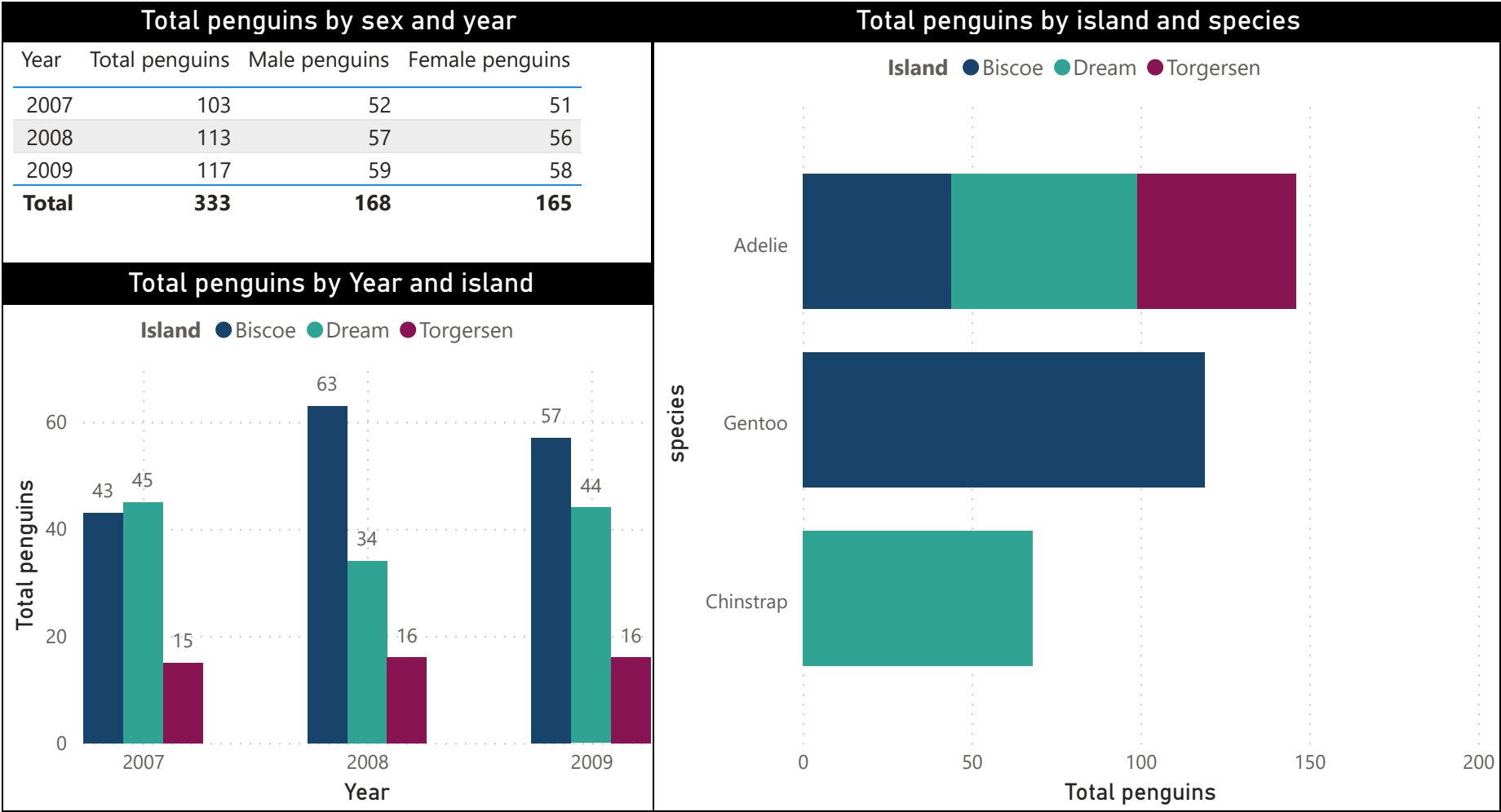
• Welcome to the Penguin PowerBI report. This report has been created on its entirety using the tools and data available at the Data Analytics and Science Hub (DASH) platform.

• Users that have signed up to take part at the PowerBI hackathon on 2MS on 19th April are encouraged to try to replicate this sample report. Further information on the PowerBI session can be found in our GitHub repo.

For more information

- DASH playbook
- GitHub repo
- DASH SharePoint

It is generally a good idea to start reports with a relatively high-level overview of the data before delving deeper. The three simple graphs below can introduce users to the penguins dataset and functionality of this report. Try clicking in the graphs to cross-filter.



Year

- Select all
- 2007
- 2008
- 2009

Island

- Select all
- Biscoe
- Dream
- Torgersen

Species

- Select all
- Adelie
- Chinstrap
- Gentoo

Sex

- Select all
- female
- male

Total Penguins

333

Average body mass (g)

4,207

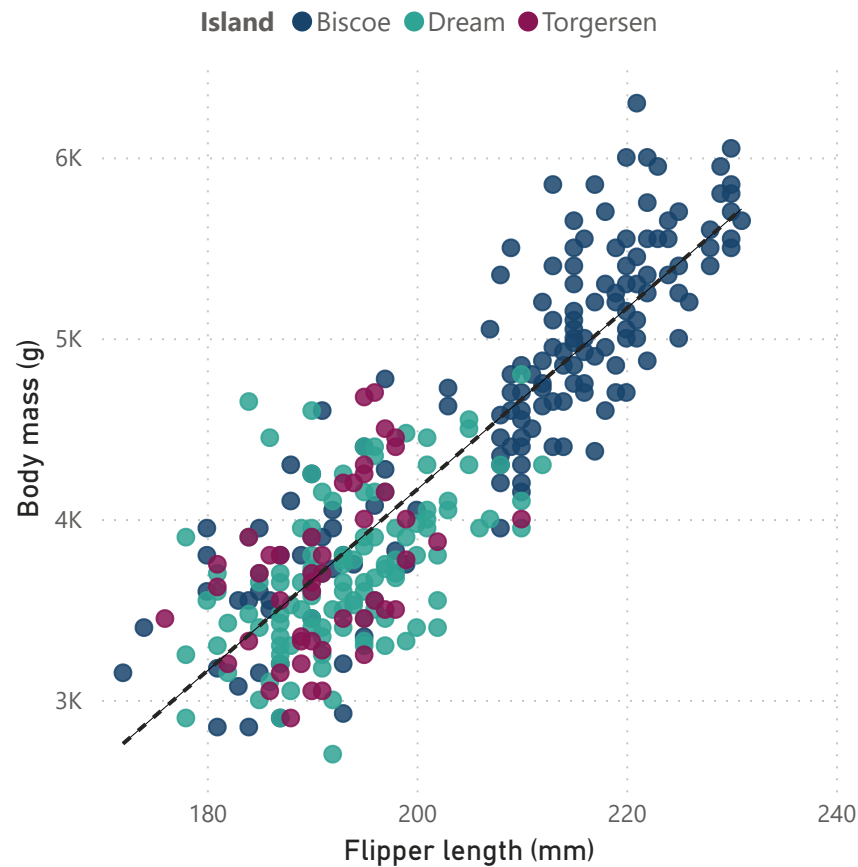
Average Flipper Length (mm)

201

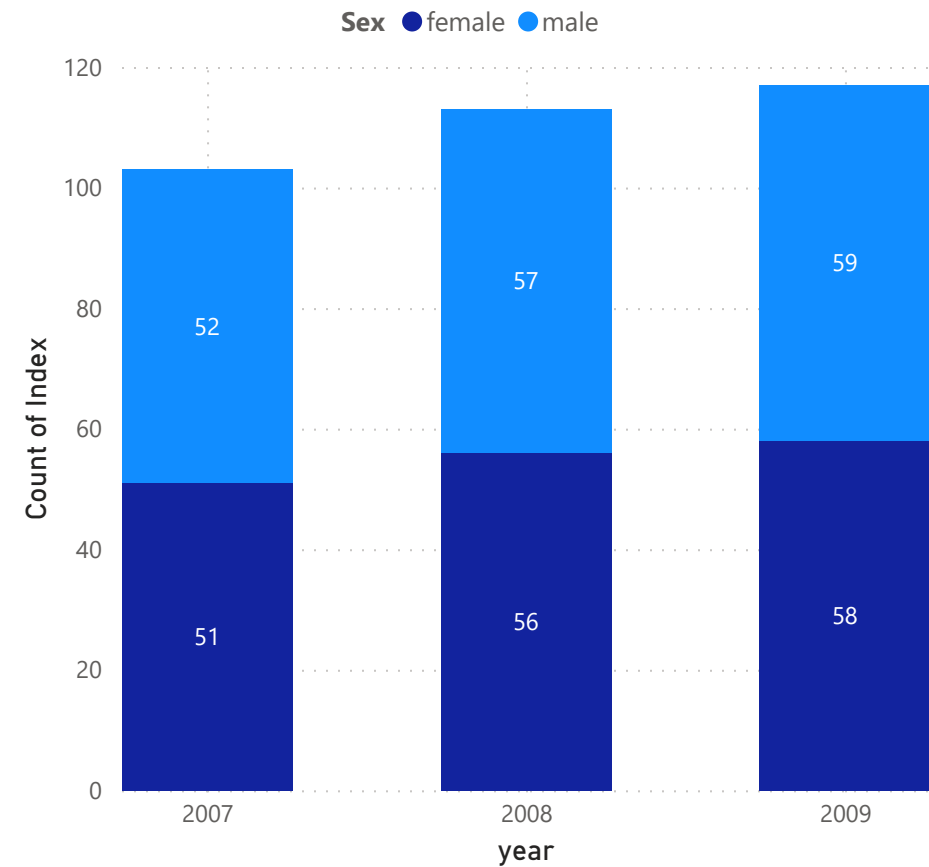
Average Bill Length (mm)

44.0

Flipper length (mm) and Body mass (g)

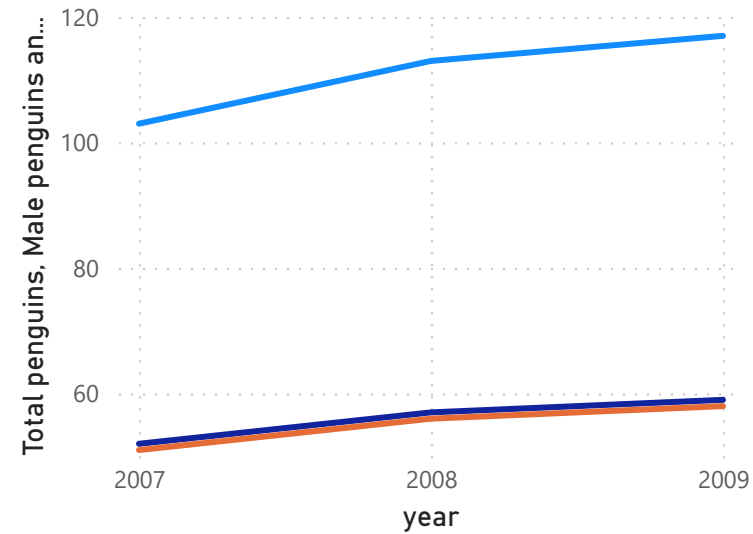


Count of Penguins by year and sex



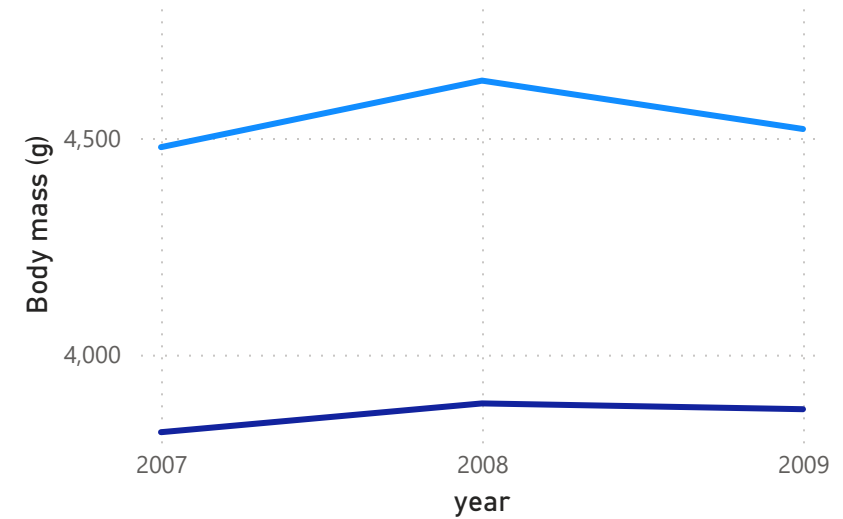
Total penguins

Island ● Total penguins ● Male penguins ● Female pengui...



Average body mass

Sex ● female ● male



Island

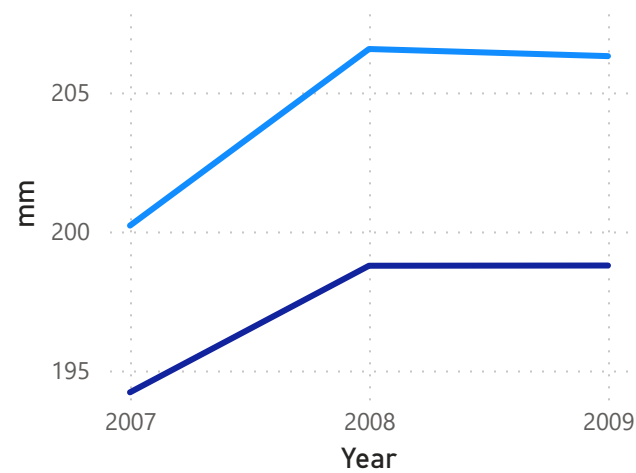
- ☒ Select all
- ☐ Biscoe
- ☐ Dream
- ☐ Torgersen

Species

- ☒ Select all
- ☐ Adelie
- ☐ Chinstrap
- ☐ Gentoo

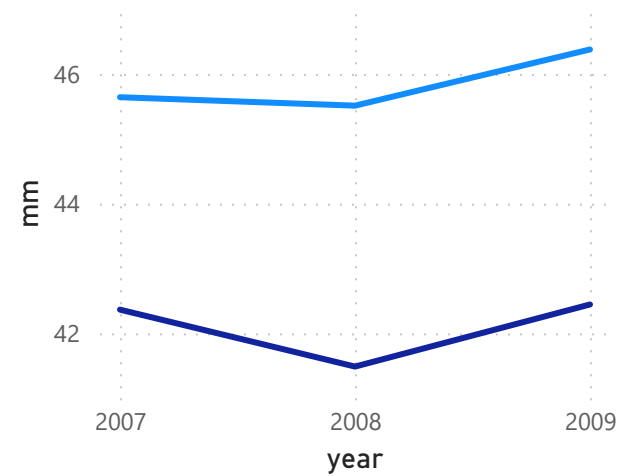
Average flipper length

Sex ● female ● male



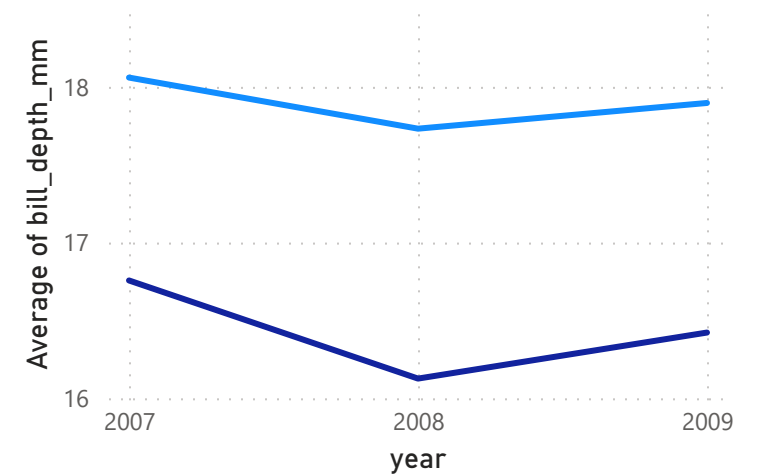
Average bill length

Sex ● female ● male



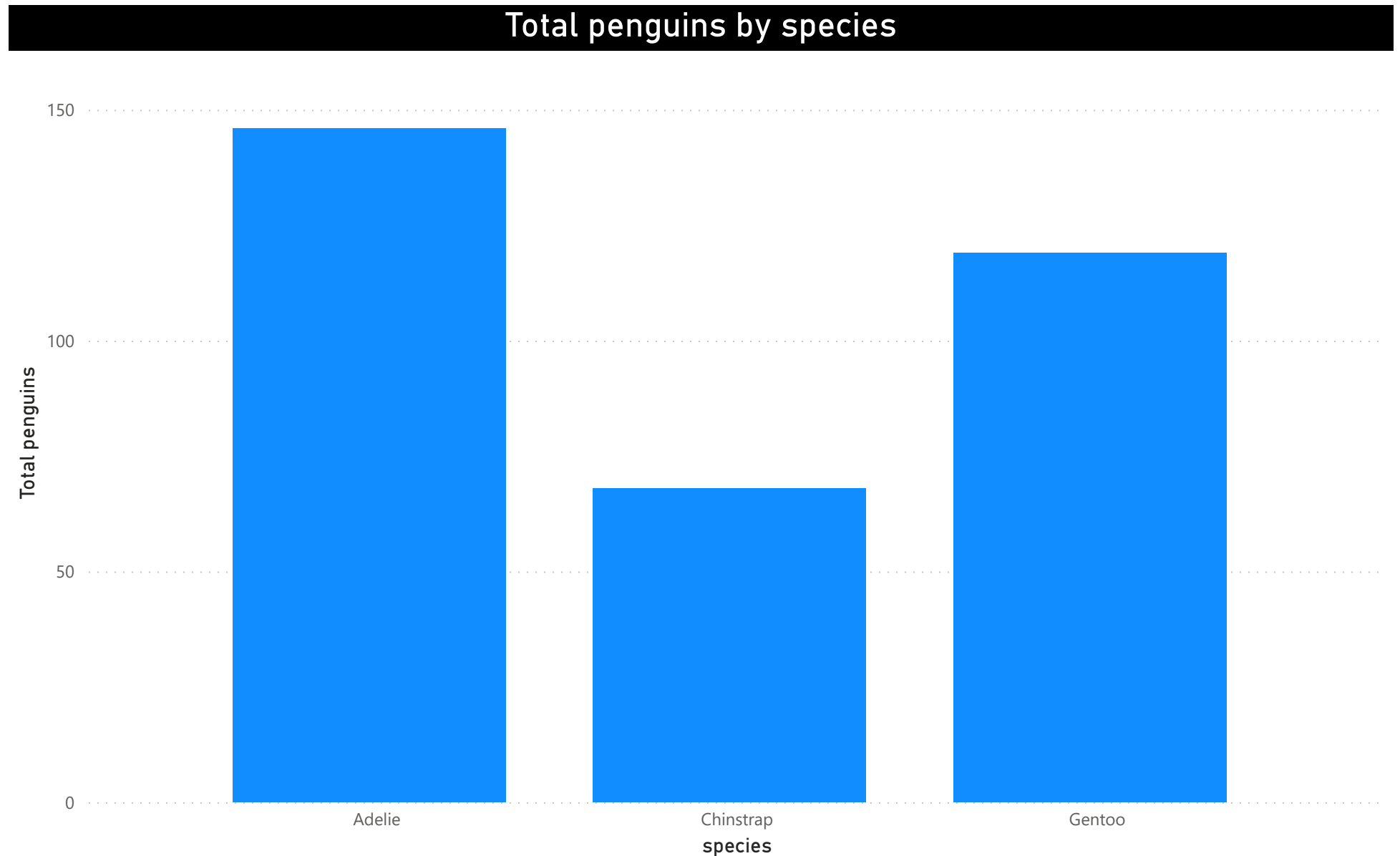
Average bill depth

Sex ● female ● male



Hierarchies are a very effective way of presenting nested data. Here the hierarchy we prepared works as Species > Island > Year. Depending on the data we are working with and the questions we need to answer, other hierarchies might be more appropriate.

- Hover your mouse on the top right of this chart and explore the functionality provided by the different buttons.
- Use Google to find out how to create your own hierarchy.



PowerBi offers a plethora of visuals, besides the most typical we have seen so far.

In this page, we have configured the following:

- [Q&A visual](#)
- [Key influencers](#)
- [Decomposition tree](#)

Click on each of the hot links above to read more about each chart.

Ask a question about your data

Try one of these to get started

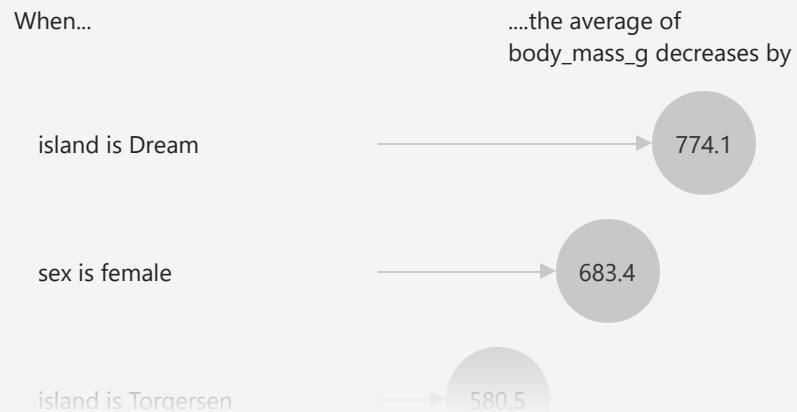
top penguin islands by total penguins

what is the total penguins by penguin island

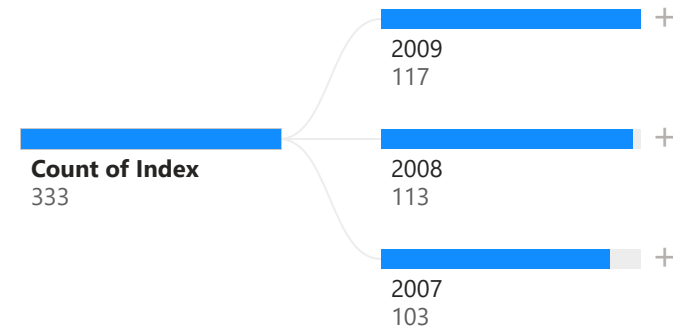
Show all suggestions

Key influencers Top segments

What influences body_mass_g to Decrease ?



year



As part of today's hackathon, the DASH team offered the opportunity to participants for an RShiny session.

We have here replicated the RShiny dashboard using PowerBI.

If you want to learn more about RShiny or give the penguins a go there, please see this repository.

