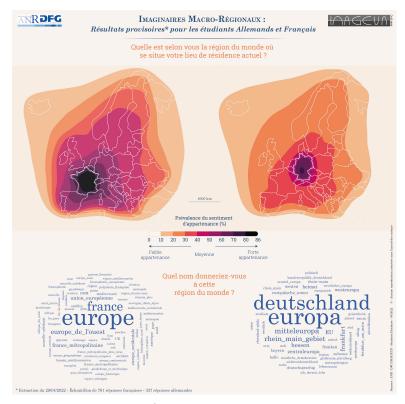
Gestion d'une base de donnée qualitatives et géometrique



Elina Marveaux

Master of Science in Biology Biodiversity, Evolution and Ecology Department of Biological Sciences University of Bergen



Cover page Beckwithia glacialis on Snøhetta.

Table des matières

Pr	eface	1
1.	Summary	3
I.	The Penguins	5
2.	"Penguins" 2.1. Plot 2.2. Data	7 7 8
3.	Introduction	13
Re	ferences	15
4.	Summary	17
Αļ	ppendices	17
Α.	More results	19

List of Figures

1.	Chart Bar des NAS	
A.1.	cover	 19

List of Tables

Preface

This is a Quarto book.

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

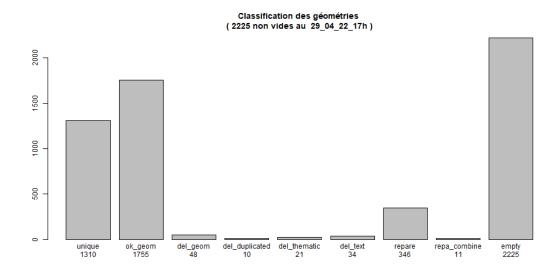


Figure 1.: Chart Bar des NAS

1. Summary

Part I. The Penguins

2. "Penguins"

A simple example based on Allison Horst's Palmer Penguins dataset. Here we look at how penguin body mass varies across both sex and species (use the provided inputs to filter the dataset by bill length and island):

```
//| echo: false
data = FileAttachment("data/palmer-penguins.csv").csv({ typed: true })
//| echo: false
viewof bill_length_mm = Inputs.range(
   [32, 50],
  {value: 35, step: 1, label: "Bill length (min):"}
)
viewof islands = Inputs.checkbox(
   ["Torgersen", "Biscoe", "Dream"],
  { value: ["Torgersen", "Biscoe"],
     label: "Islands:"
  }
)
//| echo: false
filtered = data.filter(function(penguin) {
  return bill_length_mm < penguin.bill_length_mm &&
          islands.includes(penguin.island);
})
```

2.1. Plot

```
//| echo: false
//| output: true
//| label: fig-penguin-body-mass
//| fig-cap: "Penguin body mass by sex and species"
Plot.rectY(filtered,
```

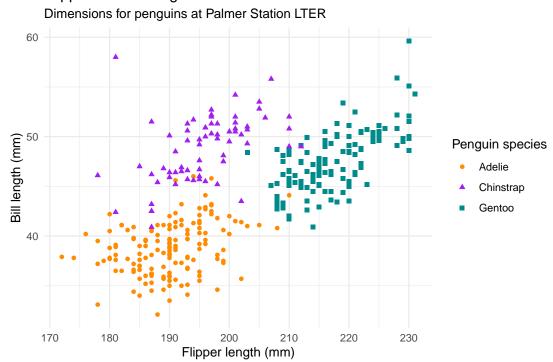
2. "Penguins"

```
Plot.binX(
        {y: "count"},
        {x: "body_mass_g", fill: "species", thresholds: 20}
      .plot({
10
        facet: {
          data: filtered,
12
          x: "sex",
13
          y: "species",
14
          marginRight: 80
15
        },
16
        marks: [
          Plot.frame(),
        ]
      }
20
   )
21
```

2.2. Data

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

Flipper and bill length



Part II.

3. Introduction

This is a book created from markdown and executable code. See Knuth (1984) for additional discussion of literate programming.

References

Knuth, Donald E. 1984. "Literate Programming." $Comput.\ J.\ 27$ (2): 97-111. https://doi.org/10.1093/comjnl/27.2.97.

4. Summary

A. More results

Some results that wouldn't fit into the main thesi Some results that wouldn't fit into the main thesis

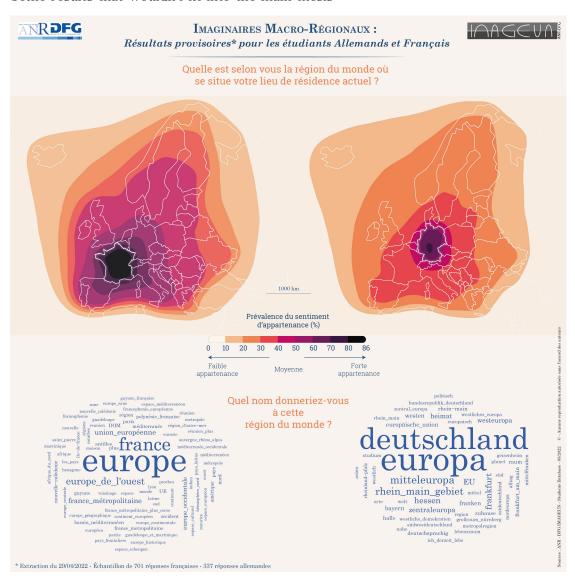


Figure A.l.: cover