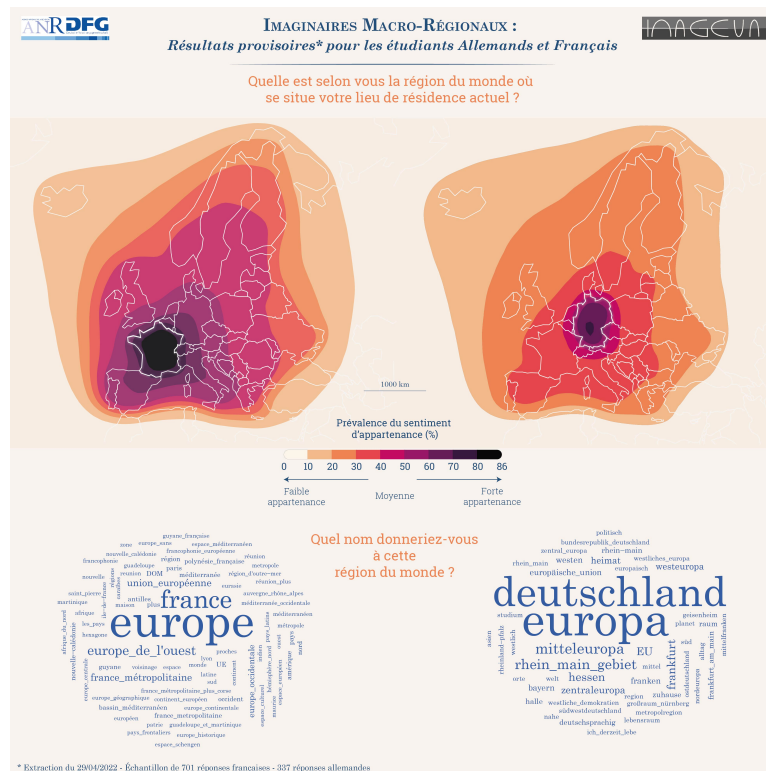


## Gestion d'une base de donnée qualitatives et géométrique



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Cover page  
*Beckwithia glacialis* on Snøhetta.

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# Preface

This is a Quarto book.

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

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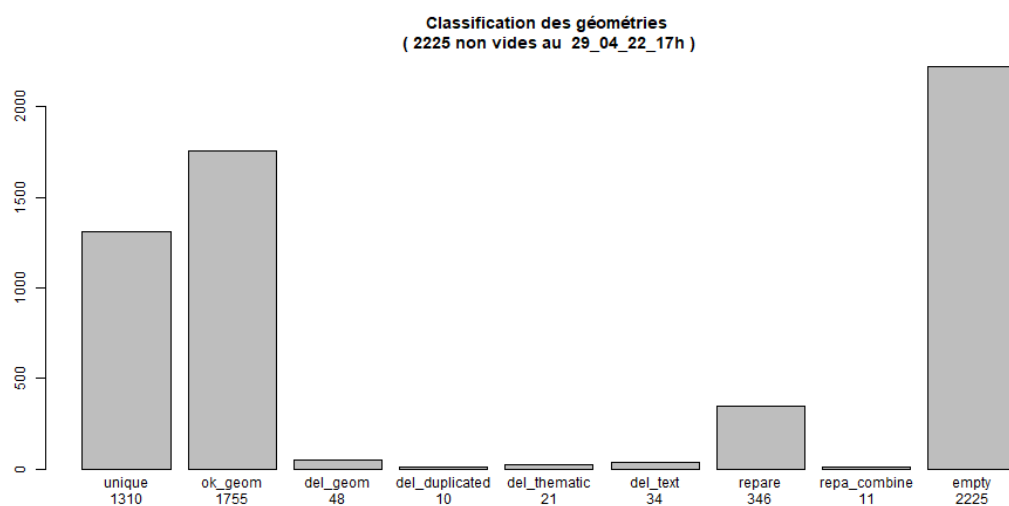


Figure 1.: Chart Bar des NAS



# 1. Summary

In summary, this book has no content whatsoever.

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[1] 2





**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

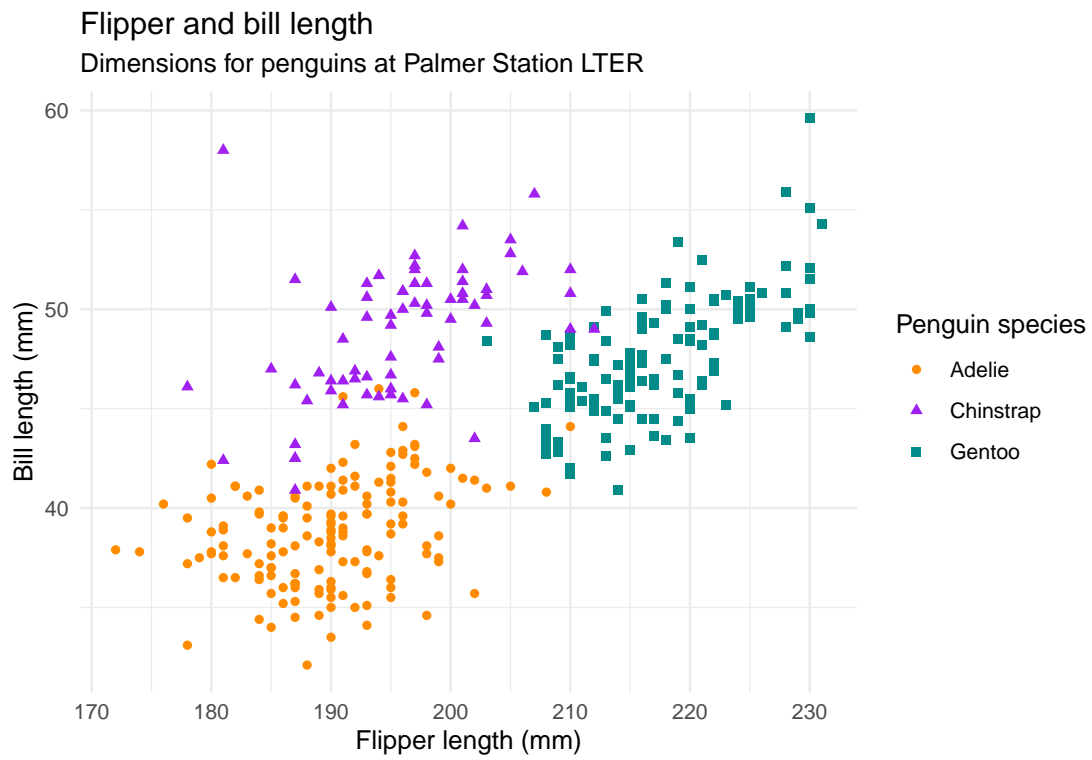
```
///| echo: false
///| output: true
///| label: fig-penguin-body-mass
///| fig-cap: "Penguin body mass by sex and species"
Plot.rectY(filtered,
```

## 2. “Penguins”

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

### 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.





### 3. Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

```
1 + 1
```

```
[1] 2
```





## References

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.



## 4. Summary

In summary, this book has no content whatsoever.

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[1] 2



## A. More results

Some results that wouldn't fit into the main thesis

Some results that wouldn't fit into the main thesis

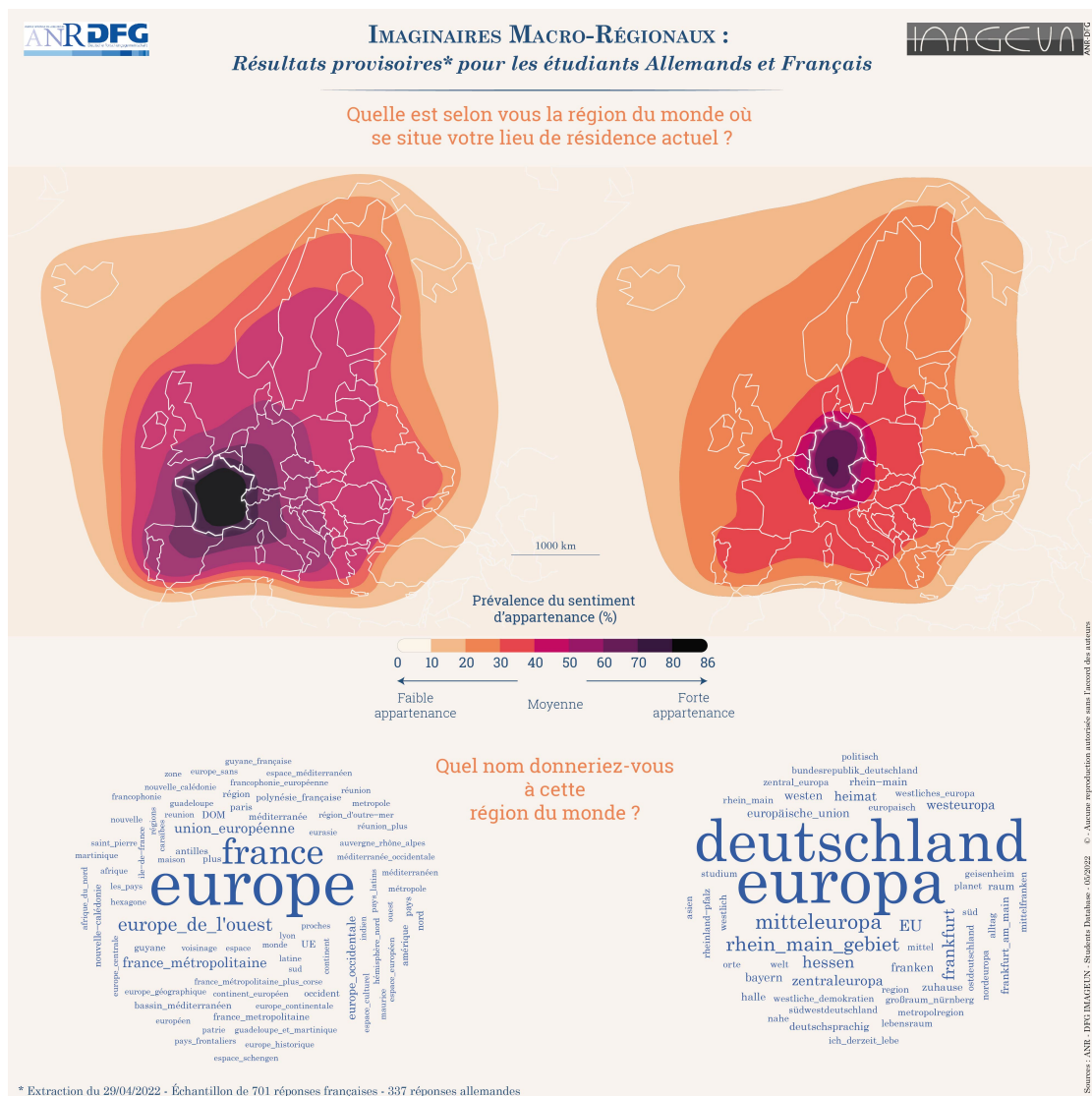


Figure A.1.: cover

