

# Penguin Analysis

## Exploratory analysis of the penguin data set

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This report is an assignment of the [Productive R Workflow](#) course.

The goal is to build a Quarto report using a script that loads the [palmerpenguins](#) data set and performs an exploratory analysis.

Since most of the data processing is done in other scripts, we will only load [tidyverse](#) and [here](#) in this report.

## Data loading

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The data is already loaded and prepared in our data folder, as well as some custom functions.

► Show the code

## Descriptive analytics

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### Summary of the data

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species	island	bill_length_mm	bill_depth_mm
Length:342	Length:342	Min. :32.10	Min. :13.10
Class :character	Class :character	1st Qu.:39.27	1st Qu.:15.57
Mode :character	Mode :character	Median :44.50	Median :17.30
		Mean :43.96	Mean :17.14
		3rd Qu.:48.50	3rd Qu.:18.70
		Max. :59.60	Max. :21.50
		NA's :2	NA's :2
flipper_length_mm	body_mass_g	sex	year
Min. :172.0	Min. :2700	Length:342	Min. :2007
1st Qu.:190.0	1st Qu.:3550	Class :character	1st Qu.:2007
Median :197.0	Median :4050	Mode :character	Median :2008
Mean :201.0	Mean :4203		Mean :2008
3rd Qu.:213.2	3rd Qu.:4756		3rd Qu.:2009
Max. :231.0	Max. :6300		Max. :2009
NA's :2	NA's :2		

### Means of the bill length of Adelie species in each island

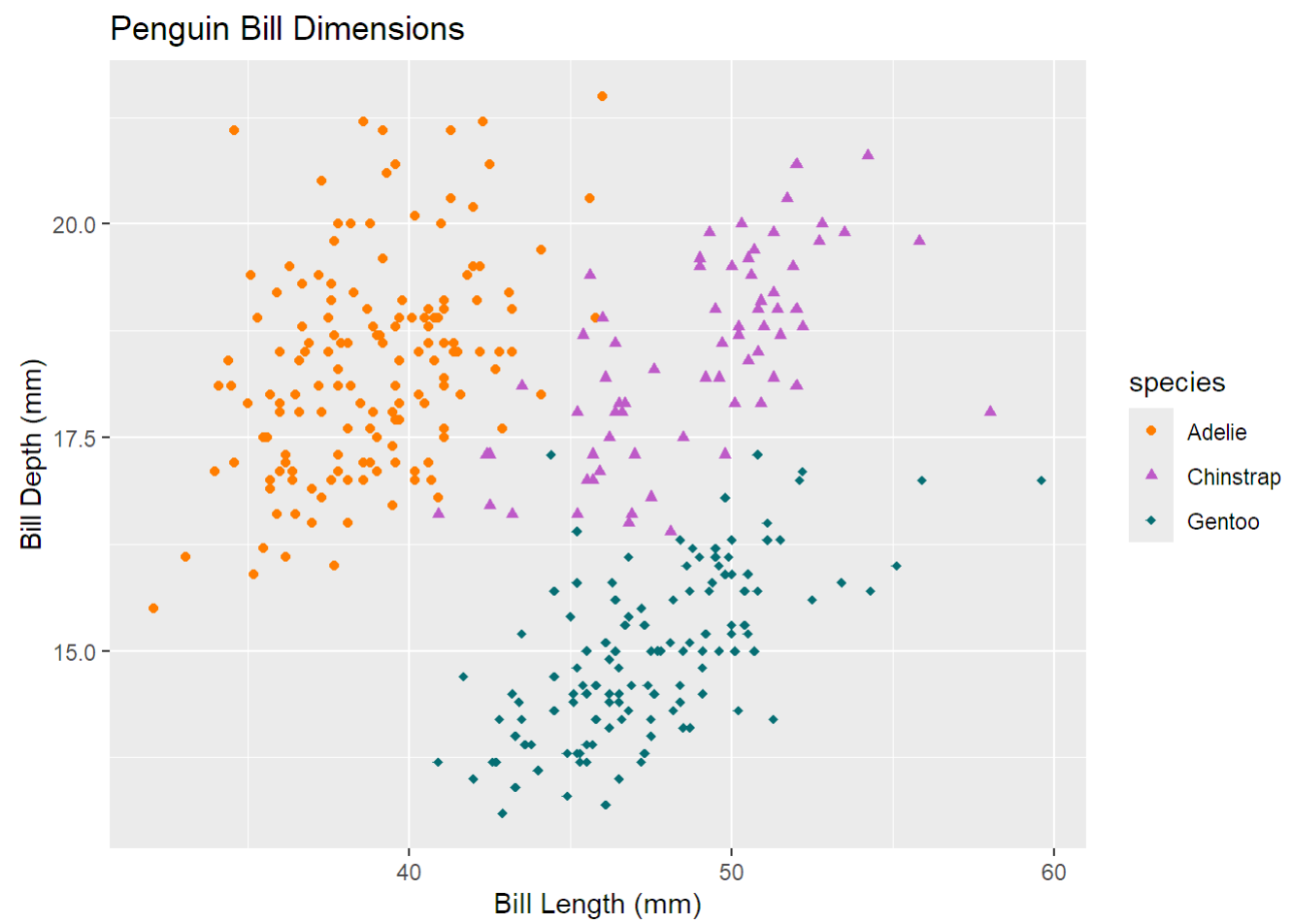
► Show the code

```
# A tibble: 3 × 2
  island mean_bill_length
<chr>      <num.>
```

```
1 Biscoe           38.98
2 Dream            38.50
3 Torgersen       39.01
```

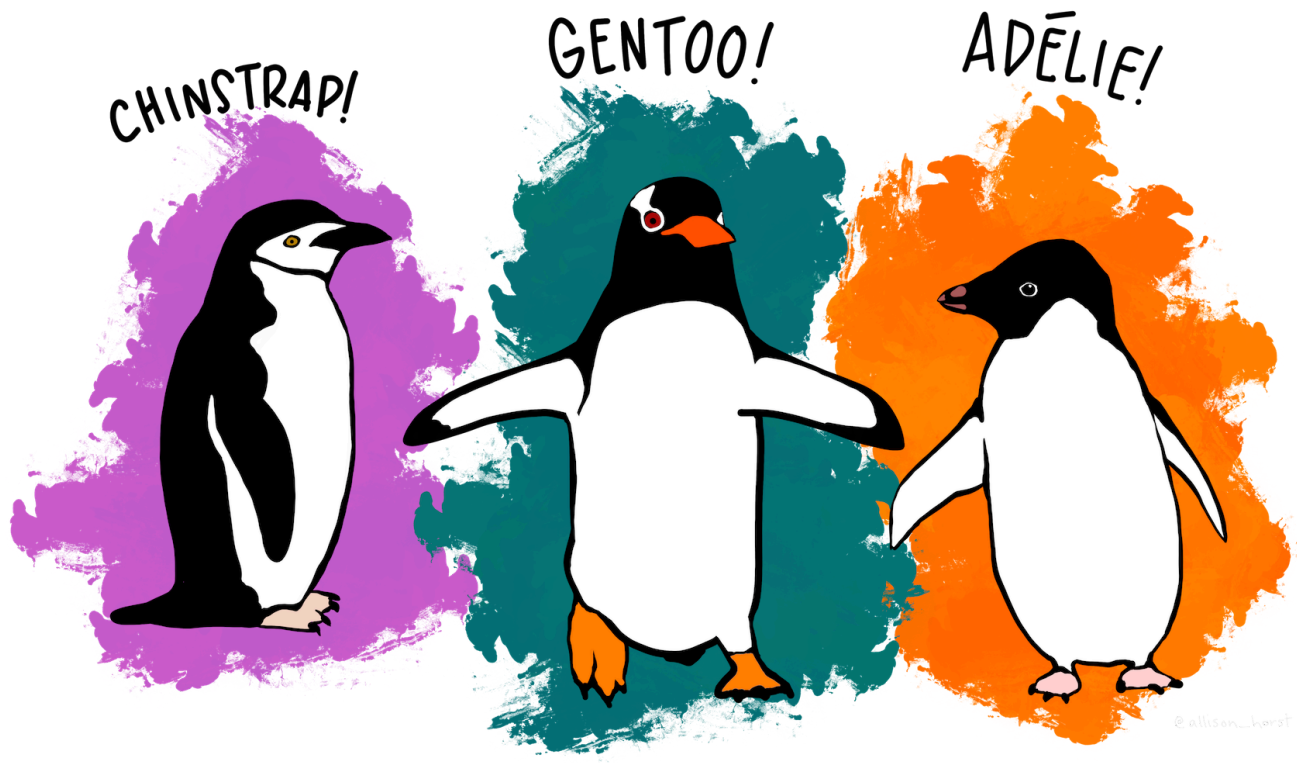
Scatter plot with Bill dimensions (length and depth) by species

► [Show the code](#)



Data source

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Horst AM, Hill AP, Gorman KB (2020). palmerpenguins: Palmer Archipelago (Antarctica) penguin data. R package version 0.1.0. <https://allisonhorst.github.io/palmerpenguins/>. doi: 10.5281/zenodo.3960218.