

# What is Quarto?

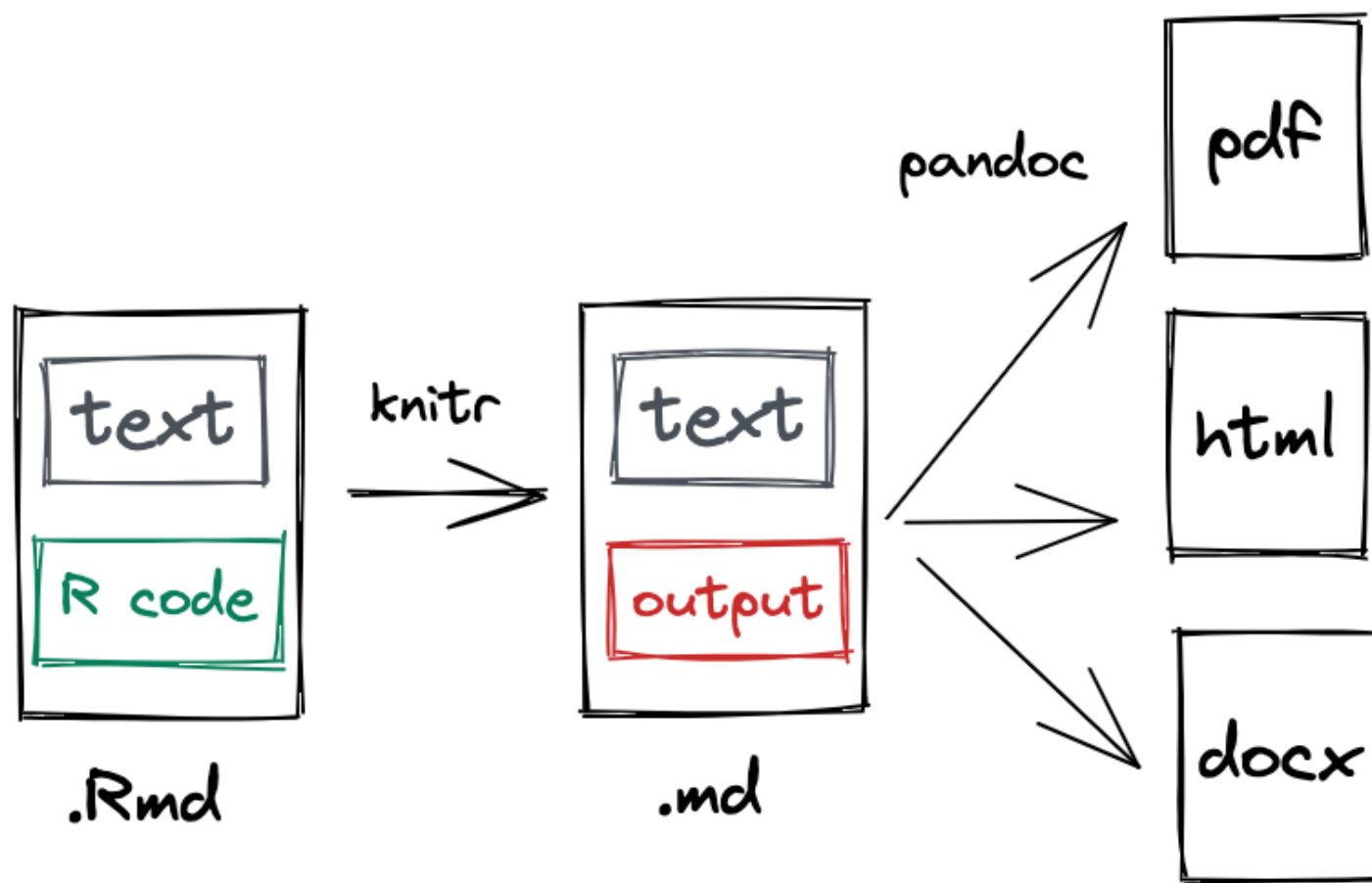
A Quick Intro

Jan Simson

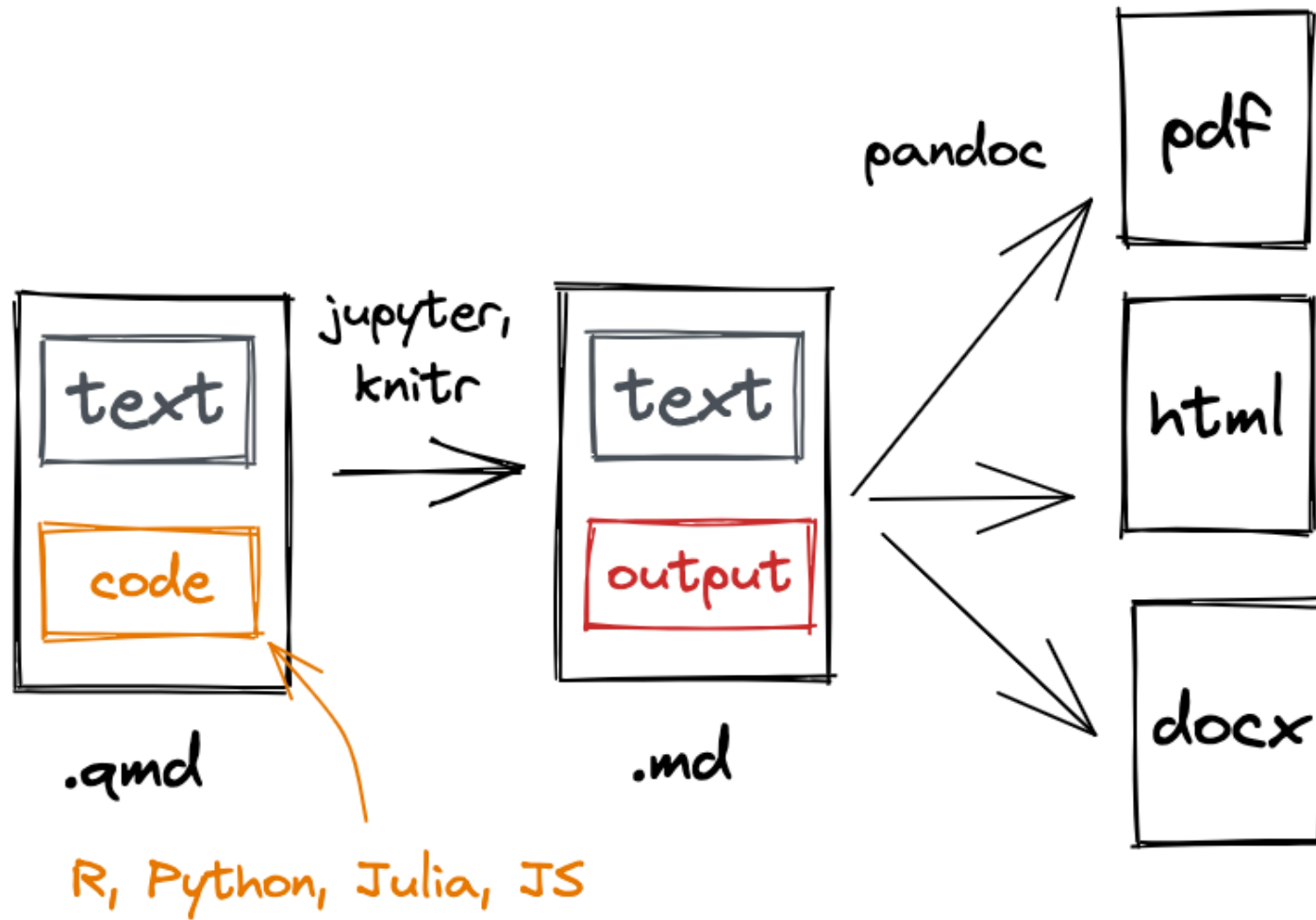
**Question:**  
**What is Quarto?**

**(easy) Answer:**  
**Rmarkdown 2.0**

rmarkdown (+ bookdown, xaringan, rticles, blogdown, distill)



quarto



# What does a document look like?

```
1 ---
2 title: "What is Quarto?"
3 format: pdf
4 ---
5
6 ## Quarto
7
8 Quarto enables you to weave together prose and
9 executable code into one document.
10
11 ```{r}
12 1 + 1
13 ```
```

# What does a document look like?

```
1 ---
2 title: "What is Quarto?"
3 format: pdf
4 ---
5
6 ## Quarto
7
8 Quarto enables you to weave together prose and
9 executable code into one document.
10 Just look at @fig-penguins!
11
12 ```{r}
13 #| label: fig-penguins
14 #| fig-cap: A plot about penguins.
15 library(ggplot2)
16 ggplot(
17   data = palmerpenguins::penguins |> na.omit(),
18   aes(x = bill_length_mm, y = bill_depth_mm, color = species)
19 )
```

# The Rendered Output

## What is Quarto?

### Quarto

Quarto enables you to weave together prose and executable code into one document. Just look at Figure 1!

```
library(ggplot2)
ggplot(
  data = palmerpenguins::penguins |> na.omit(),
  aes(x = bill_length_mm, y = bill_depth_mm, color = species)
) + geom_point()
```

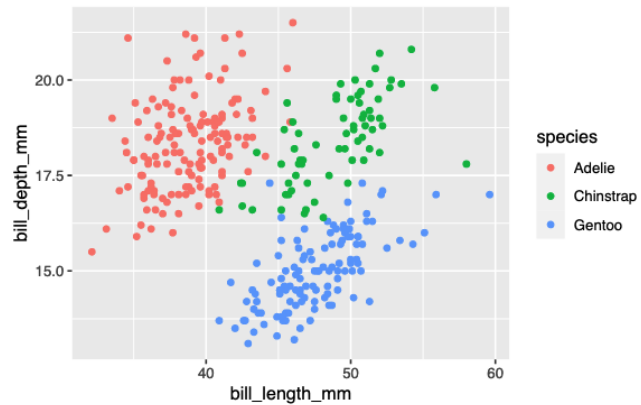


Figure 1: A plot about penguins.



# The Rendered Output

## What is Quarto?

MAX MUSTERMANN

Additional Key Words and Phrases: datasets, neural networks, gaze detection, text tagging

### ACM Reference Format:

Max Mustermann. 2018. What is Quarto?. In . ACM, New York, NY, USA, 1 page. <https://doi.org/XXXXXXX>.  
[XXXXXXX](https://doi.org/XXXXXXX)

## 1 QUARTO

Quarto enables you to weave together prose and executable code into one document. Just look at Figure 1!

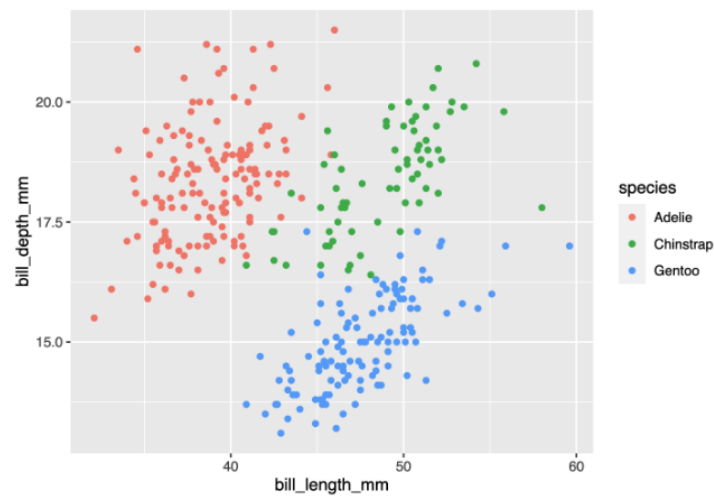



Fig. 1. A plot about penguins.

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Manuscript submitted to ACM

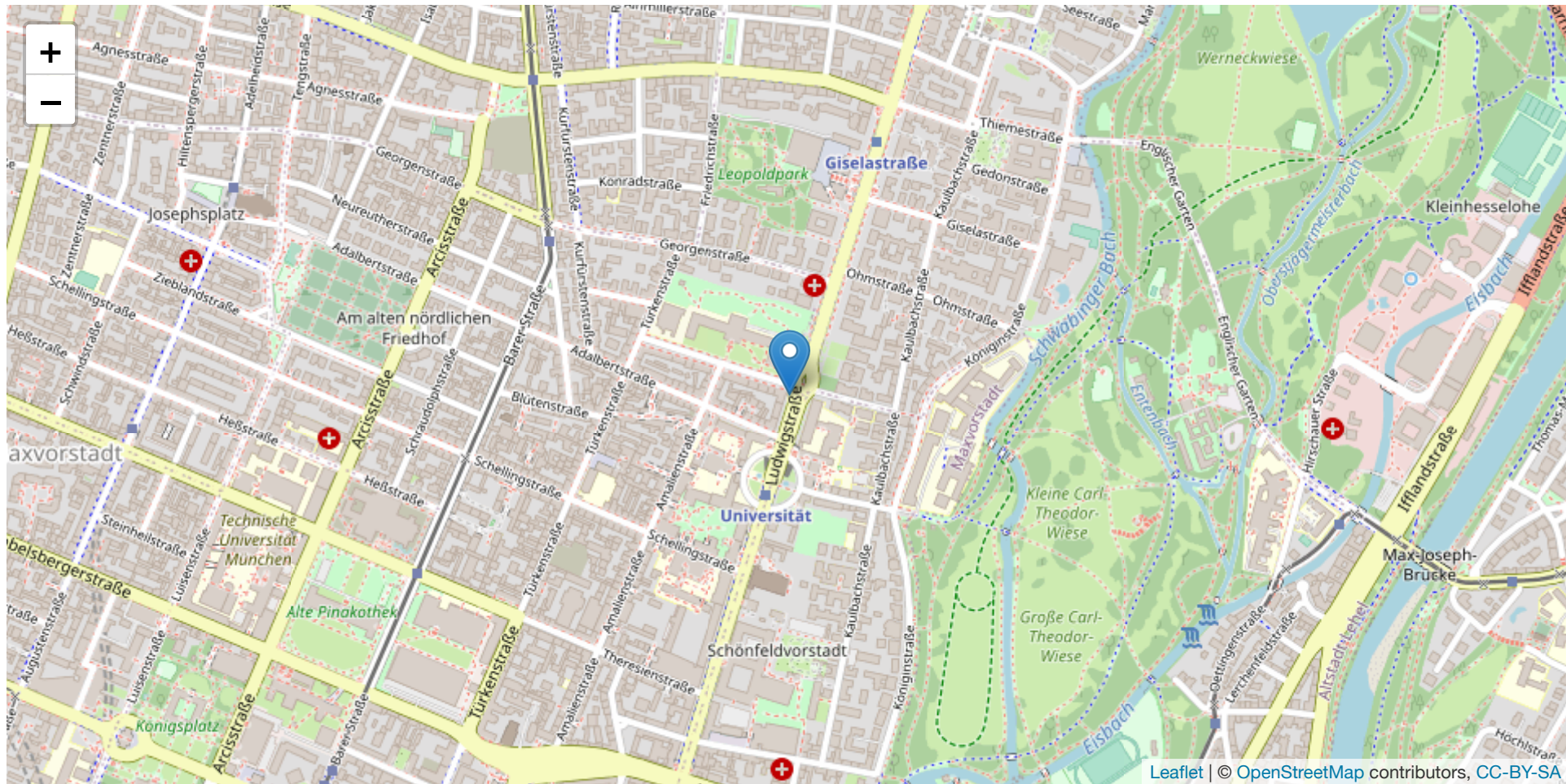
# What can you create?

- Academic Articles
  - With different templates
- Presentations
  - Such as this one 
- Websites / Blogs
- Books
  - e.g. R for Data Science
- Interactive Documents

# Interactive Documents

# Interactive Documents

- e.g. `htmlwidgets`



# Interactive Documents

- e.g. `htmlwidgets`

```
1 library(leaflet)
2 leaflet() |>
3   addTiles() |> # Add default OpenStreetMap map tiles
4   addMarkers(
5     lat=48.15209339343712,
6     lng=11.58174964647465,
7     popup="Us!"
8   )
```

# Interactive Documents

- e.g. `htmlwidgets`
- observable JS

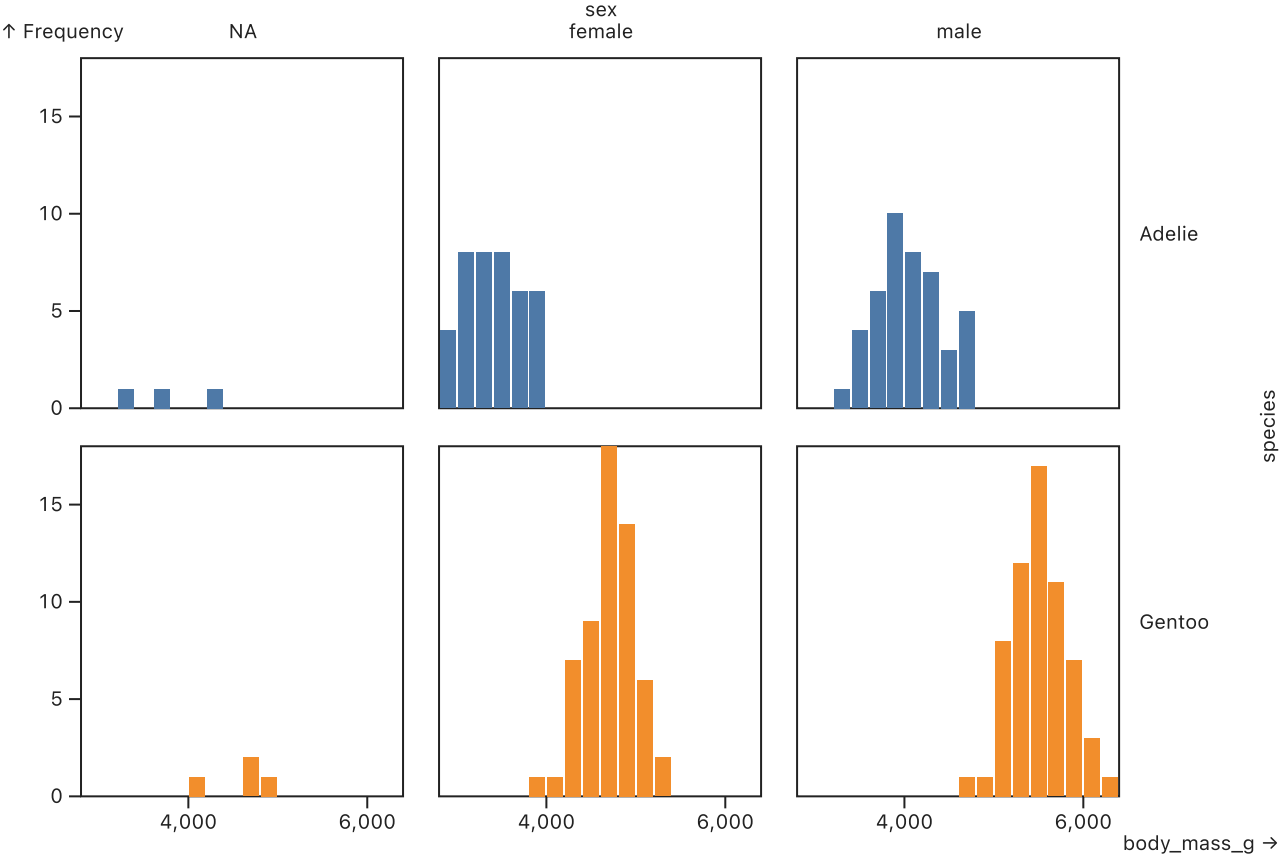
# observable JS

Bill length (min):



Islands:

- ☒ Torgersen
- ☒ Biscoe
- ☐ Dream



# Interactive Documents

- e.g. `htmlwidgets`
- observable JS
- `shiny` applications



# How can you use it?

- Rstudio
- VSCode
- Command Line
- (JupyterLab)
- Standalone Editor (in the future)

# Sources

- Inspiration for graphics at start:  
<https://occasionaldivergences.com/posts/quarto-questions/>
- Observable Notebook Example:  
<https://quarto.org/docs/interactive/ojs/examples/penguins.htm>
- <https://quarto.org/>

# Further Reading

- <https://quarto.org/>
- <https://www.apreshill.com/blog/2022-04-we-dont-talk-about-quarto/>
- <https://occasionaldivergences.com/posts/quarto-questions/>
- <https://github.com/jansim/tea-talk-quarto>