OSD2025 Quarto demo with jupyter engine

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Add a heading in your document

This is a sentence with some **bold text**, *italic text*, **code**, and a link.



Figure 1: The Quarto logo

See Figure 1 for the Quarto logo.

Equation 1 gives the formula for the population mean:

$$\mu = \frac{\sum x}{N} \tag{1}$$

Section shows how to add R or Python code chunks.

The palmerpenguins package was developed by Horst, Hill, and Gorman (2020). We will create a document using Quarto (Allaire et al. 2025) and R (R Core Team 2024) or Python (Van Rossum and Drake 2009).

This sentence ends with a footnote.¹

Add R/Python code chunks

Add R code

R code can be included but will not be evaluated when using a jupyter engine.

¹This is an example footnote.

Add Python code

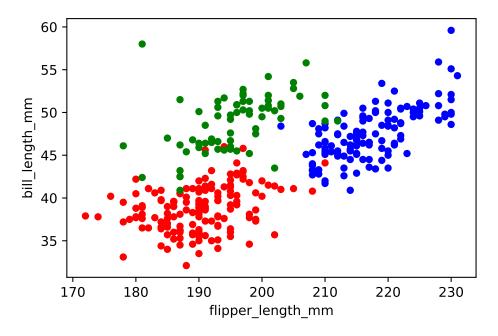


Figure 2: Scatterplot of flipper and bill lengths in Python

Add inline code

The palmerpenguins package contains data for 344 penguins.

Add tables

Table 1 and Table 2 show different table options in Quarto.

Markdown

```
| fruit | price |
|------|
| apple | 2.05 |
| pear | 1.37 |
| orange | 3.09 |

: Fruit prices {#tbl-md .striped .hover}
```

Table 1: Fruit prices

price
2.05 1.37 3.09

R

R code can be included but will not be evaluated when using a jupyter engine.

```
#| label: tbl-r
#| tbl-cap: "Summary statistics for flipper and bill lengths"

penguins %>%
  group_by(species) %>%
  summarise(
    `Mean bill length` = mean(bill_length_mm, na.rm = T),
    `Min bill length` = min(bill_length_mm, na.rm = T),
    `Max bill length` = max(bill_length_mm, na.rm = T),
    `Mean flipper length` = mean(flipper_length_mm, na.rm = T),
    `Min flipper length` = min(flipper_length_mm, na.rm = T),
    `Max flipper length` = max(flipper_length_mm, na.rm = T),
    `Correlation, r` = cor(flipper_length_mm, bill_length_mm, use = "complete")
    ) %>%
    kable(digits = c(2, 2, 2, 2, 2))
```

Python

Table 2: First rows of penguins dataframe

	species	island	bill_length_mm	flipper_length_mm
0	Adelie	Torgersen	39.1	181
1	Adelie	Torgersen	39.5	186
2	Adelie	Torgersen	40.3	195
3	Adelie	Torgersen	nan	nan
4	Adelie	Torgersen	36.7	193

References

- Allaire, J. J., Charles Teague, Carlos Scheidegger, Yihui Xie, Christophe Dervieux, and Gordon Woodhull. 2025. "Quarto." https://doi.org/10.5281/zenodo.5960048.
- Horst, Allison M, Alison Presmanes Hill, and Kristen B Gorman. 2020. Allison-horst/Palmerpenguins: V0.1.0. Zenodo. https://doi.org/10.5281/ZENODO.3960218.
- R Core Team. 2024. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.
- Van Rossum, Guido, and Fred L. Drake. 2009. *Python 3 Reference Manual*. Scotts Valley, CA: CreateSpace.