

# La Mejor Masa de Pizza para Marcelo\*

*Uso de Quarto + Typst para reportes científicos*

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**ABSTRACT** Nunc ac dignissim magna. Vestibulum vitae egestas elit. Proin feugiat leo quis ante condimentum, eu ornare mauris feugiat. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris cursus laoreet ex, dignissim bibendum est posuere iaculis. Suspendisse et maximus elit. In fringilla gravida ornare. Aenean id lectus pulvinar, sagittis felis nec, rutrum risus. Nam vel neque eu arcu blandit fringilla et in quam. Aliquam luctus est sit amet vestibulum eleifend. Phasellus elementum sagittis molestie. Proin tempor lorem arcu, at condimentum purus volutpat eu. Fusce et pellentesque ligula. Pellentesque id tellus at erat luctus fringilla. Suspendisse potenti.

**Keywords:** Quarto, Typst, format

**JEL Codes:** J16, J22, J31

This document shows a practical usage of the template.

I use the Palmer penguins dataset (Horst et al., 2020) to demonstrate the features of the template. The code is available [here](#).

## 1 Section as Heading Level 1

Section numbering can be specified in the YAML section-numbering field as other Typst templates.

### 1.1 Subsection as Heading Level 2

You can use LaTeX math expressions:

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\*This template is inspired by Kieran Healy's [LaTeX and Rmd template](#) and Andrew Heiss's [Hikmah Quarto template](#).

$$Y_{it} = \alpha_i + \lambda_t + \sum_{k \neq -1} \tau_h \mathbb{1}\{E_i + k = t\} + \varepsilon_{it}.$$

I choose a mathematical font which supports the indicator function  $\mathbb{1}\{\cdot\}$ . Currently, I use the Libertinus Math font.

### 1.1.1 Subsubsection as Heading Level 3

I don't use and don't recommend using heading levels 3 and below but it works.

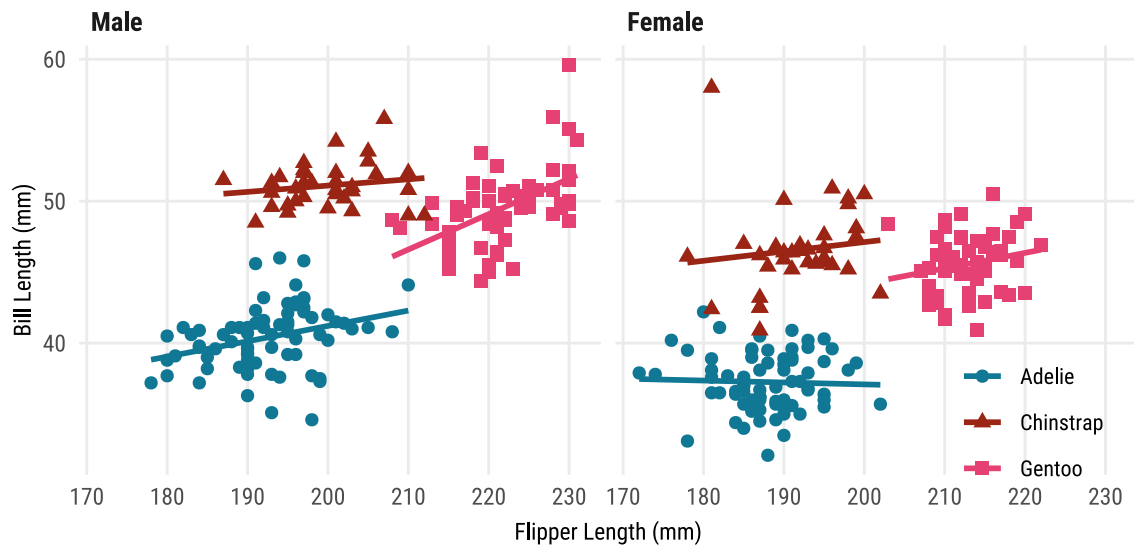
## 1.2 Citation

You can cite a reference like this (Katsushika, 1831) or Horst, Hill, & Gorman (2020). Typst has some built-in citation styles. Check the [Typst documentation](#) for more information.

# 2 Figures and Tables

## 2.1 Figures

As [Figure 1](#) shows, the caption is displayed below the figure. As a caption of the figure (`fig-cap`), I use bold text for the title and use a normal text for the description.



**Figure 1: Flipper Length and Bill Length of Penguins.** The x-axis shows the flipper length, and the y-axis shows the bill length.

When I want to show multiple figures side by side, I use the patchwork package. The reason why I don't use the `layout-col` option is that the caption is also split into two parts.



**Figure 2: Characteristics of Penguins.** The left panel shows the relationship between flipper length and body mass. The right panel shows the density of flipper length.

## 2.2 Tables

You can use `tinytable` for general tables and `modelsummary` for regression tables. As Table 1 shows, the caption is displayed above the table. The notes of the table can be added using the `notes` argument of the `tinytable::tt()` function.

**Table 1: Summary Statistics of Penguins**

	Male				Female			
	Bill Length (mm)	Bill Depth (mm)	Flipper Length (mm)	Body Mass (g)	Bill Length (mm)	Bill Depth (mm)	Flipper Length (mm)	Body Mass (g)
Adelie	40.39	19.07	192.4	4043	37.26	17.62	187.8	3369
Gentoo	49.47	15.72	221.5	5485	45.56	14.24	212.7	4680
Chins-trap	51.09	19.25	199.9	3939	46.57	17.59	191.7	3527

*Notes:* Data from Palmer penguins dataset.

Since the default backend of `modelsummary` is `tinytable`, you can use the customization options of `tinytable` for `modelsummary`. In Table 2, I use `tinytable::group_tt()` function to group the regression results by the dependent variables

**Tabla 2:** Regression Results of Penguins

	Bill Length (mm)			Body Mass (g)		
	(1)	(2)	(3)	(4)	(5)	(6)
Chinstrap	10.042** (0.432)	10.010** (0.341)	10.037** (0.340)	32.426 (67.512)	26.924 (46.483)	27.229 (46.587)
Gentoo	8.713** (0.360)	8.698** (0.287)	8.693** (0.286)	1375.354** (56.148)	1377.858** (39.104)	1377.813** (39.163)
Male		3.694** (0.255)	3.694** (0.254)		667.555** (34.704)	667.560** (34.755)
Year			0.324* (0.156)			3.629 (21.428)
Observations	342	333	333	342	333	333

+  $p < 0.1$ , \*  $p < 0.05$ , \*\*  $p < 0.01$

\_Notes\_: Data from Palmer penguins dataset.

While `tinytable` generates compatible tables between LaTeX and Typst, it does not support LaTeX math expressions for Typst tables. I think the compatibility between LaTeX and Typst is crucial for academic writing because it guarantees that the document can be easily converted to LaTeX for submission to journals.

A workaround is to use [MiTeX](#), a Typst package that allows you to use LaTeX math expressions in Typst. I write a custom theme for `tinytable` to convert LaTeX math expressions to MiTeX expressions. The following table includes LaTeX math expressions but will be converted to MiTeX expressions in the Typst output.

**Tabla 3:** Math Symbols

Math
$\alpha$
$a_{it}$
$e^{i\pi} + 1 = 0$

### 3 Last words

I made this template for my working papers, so it may not be suitable for other fields than economics. I am happy to receive feedback and suggestions for improvement.

# Appendix

## A Supplemental Figures

The section numbering will be changed to “A.1.1” in the appendix. The second section in the appendix will be “B”. On the other hand, the figure numbering will be reset to “A.1”, “A.2” so that it is clear that these figures are part of the appendix. The “A” stands for the “Appendix”, not the section numbering.



**Figura A.1: The Great Wave off Kanagawa.** A woodblock print by Katsushika (1831).

## References

- Horst, A. M., Hill, A. P., & Gorman, K. B. (2020). *palmerpenguins: Palmer Archipelago (Antarctica) penguin data*. <https://doi.org/10.5281/zenodo.3960218>
- Katsushika, H. (1831). *The Great Wave off Kanagawa*. [https://upload.wikimedia.org/wikipedia/commons/a/a5/Tsunami\\_by\\_hokusai\\_19th\\_century.jpg](https://upload.wikimedia.org/wikipedia/commons/a/a5/Tsunami_by_hokusai_19th_century.jpg)