


# Example preprint-typst Document: Academic Writing with Quarto and Typst

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*Keywords:* Quarto, Typst, example, academic writing

*Words:* 696

“An article about computational science in a scientific publication is not the scholarship itself, it is merely advertising of the scholarship. The actual scholarship is the complete software development environment and the complete set of instructions which generated the figures.” –Buckheit and Donoho (1995, paraphrasing Jon Claerbout)

## Introduction

Quarto is “An open-source scientific and technical publishing system” (Allaire et al., 2025) for writing reproducible documents that combine computations and prose written in [markdown](#) into HTML, PDF, Word, and other outputs. For many R users, Quarto is a successor of [R Markdown](#) but with a broader scope and better support for different output formats and computational content in other languages.

[quarto-preprint](#) is a Quarto extension that provides the *preprint-typst* output format. When using this format, Quarto renders your document into PDF using [Typst](#), a modern replacement for LaTeX. *preprint-typst* builds on the standard Quarto Typst template and enables separated author-affiliation formatting, additional meta-data variables for scholarly writing, opinionated but customizable typesetting, improved two-column layouts (including full-width floats), appendices, and more. In addition, *preprint-typst* aims to

- Be **fast**: Typst creates PDF files very quickly
- **Just Work**: No LaTeX installation required (Typst ships with Quarto)
- Be **100% Quarto compatible**: Switch between output formats without changing content

- Have **rich features**: Separated author-affiliation formatting, two-column layouts, full-width floats, appendices

## Example content

### Code

Code (Listing 1) font can be specified with the monofont variable.

*Listing 1.* Creating a data.frame in R

```
data <- data.frame(  
  Category = c("Type A", "Type B", "Type C"),  
  Count = c(15, 23, 8),  
  Percentage = c("35%", "54%", "19%")  
)
```

### Tables

Table 1 is a simple table. I recommend using the [tinytable](#) package for tables, but `knitr::kable()` works well for basic tables.

Table 1. An example table.

Category	Count	Percentage
Type A	15	35%
Type B	23	54%
Type C	8	19%

### Figures

Figure 1 is an example table.

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Figure 2. Example of full-width content spanning multiple columns

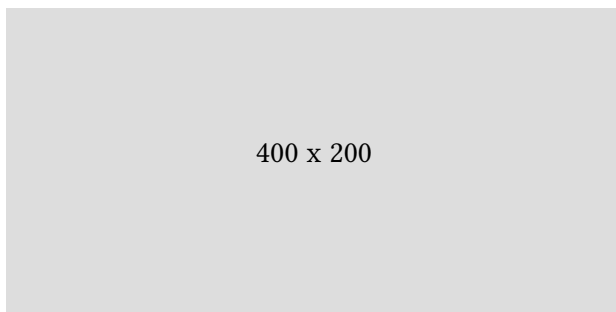


Figure 1. Example figure.

### Mathematical content

LaTeX math is probably the safest option since it is displayed in other output formats, but also automatically converted to Typst by [pandoc](#). A regression equation is shown in Equation 1

$$\mathbf{Y} = \mathbf{X}\beta + \epsilon \quad (1)$$

Where  $\mathbf{Y}$  is the response vector,  $\mathbf{X}$  is the design matrix, and  $\beta$  represents coefficients.

### Full-Width Content

In two-column documents, you can create full-width content using the `place` function. Figure 2 spans the full page width.

### Discussion

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### References

Allaire, J. J., Teague, C., Scheidegger, C., Xie, Y., Dervieux, C., & Woodhull, G. (2025). *Quarto*. <https://doi.org/10.5281/zenodo.5960048>

A1 Example Appendix

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A1.1 Tables in Appendices

Appendix cross-referenced content like Table A1.2, Figure A1.3, and Equation 1 are numbered separately.

Table A1.2. Example appendix table

Item	Value
Alpha	1.23
Beta	4.56
Gamma	7.89

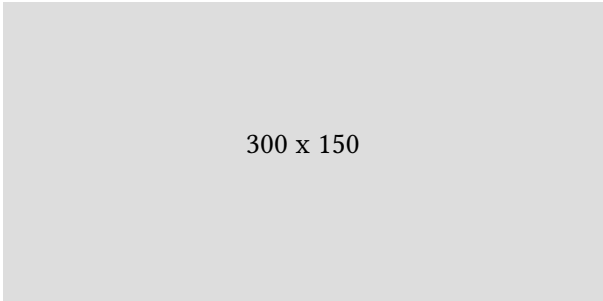


Figure A1.3. Example appendix figure

$$\hat{\beta} = (\mathbf{X}^T \mathbf{X})^{-1} \mathbf{X}^T \mathbf{Y}$$

(1)

## A2 Second Appendix

This is a second appendix.

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