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

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Keywords: Quarto, Typst, example, academic writing
Words: 719

> "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 metadata 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 figure.

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†Matti Vuorre & Example Author contributed equally to this work.

Created with Quarto 1.8.24 and *preprint-typst* 1.4.0 on 2025-10-07.

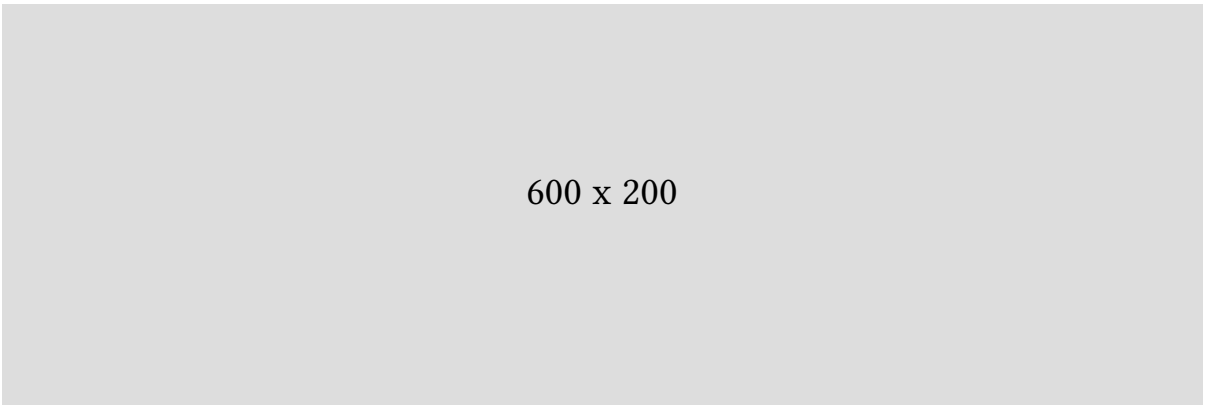

Figure 2. Example of full-width content spanning multiple columns

Just as an example, we've also placed some text here in the full-width content area. Any content here will span the whole page.

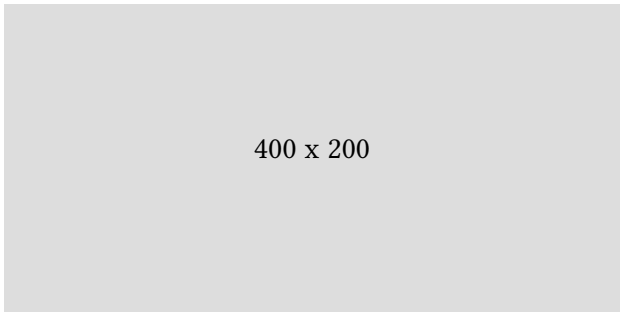

Figure 1. Example figure.

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

$$\mathbf{Y} = \mathbf{X}\beta + \boldsymbol{\epsilon} \tag{1}$$

Where $\mathbf{Y}$ is the response vector, $\mathbf{X}$ is the design matrix, and β 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

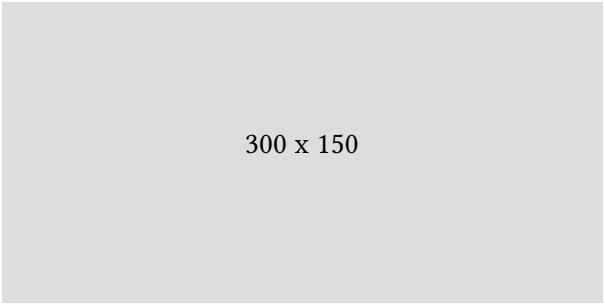

Figure A1.3. Example appendix figure

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

A2 Second Appendix

This is a second appendix.

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