

ctk-article Example^{*}

With Typst

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Abstract

Abstracts can be included in documents in the YAML. The `ctk-article` format is a multipurpose article format that uses `Typst` in the backend.

Keywords: paper • abstract • typst

1. Introduction

This template is designed for academic preprints and generic submissions. It provides features like title pages, document blinding, and more, as detailed in the [README](#). Notably, this template uses `Typst` to get from Quarto to a PDF. `Typst` is a newer approach to document-writing which can replace `LaTeX`. It is much faster and simpler to edit using `Typst`, but it is not as fully developed.

Most things can be done directly using Quarto. Quarto simplifies academic writing by allowing you to focus on the content, rather than the style. We can cite like normal ([King et al. 1994](#); [Ho et al. 2007](#)). And we can cross reference [Section 2](#).

For an introduction to Quarto, see <https://quarto.org/docs/get-started/>.

2. More Information

If you want to use a function from `Typst`, you can create a `div` or `span`. This gets rendered using my `typst-function` Quarto filter. This extension is embedded within this template, so it requires no additional setup.

These lines are red.

To add more `Typst` functions, add them to the “functions” metadata

^{*}Thanks to you for downloading this.

3. Including Lists

- Item 1
- Item 2
- Item 3
 - a

4. Including Tables

Table 1: Some monthly numbers

month	count
2024-01-01	11159
2024-02-01	6460
2024-03-01	8850
2024-04-01	8471
2024-05-01	8681
2024-06-01	7710

5. Including code

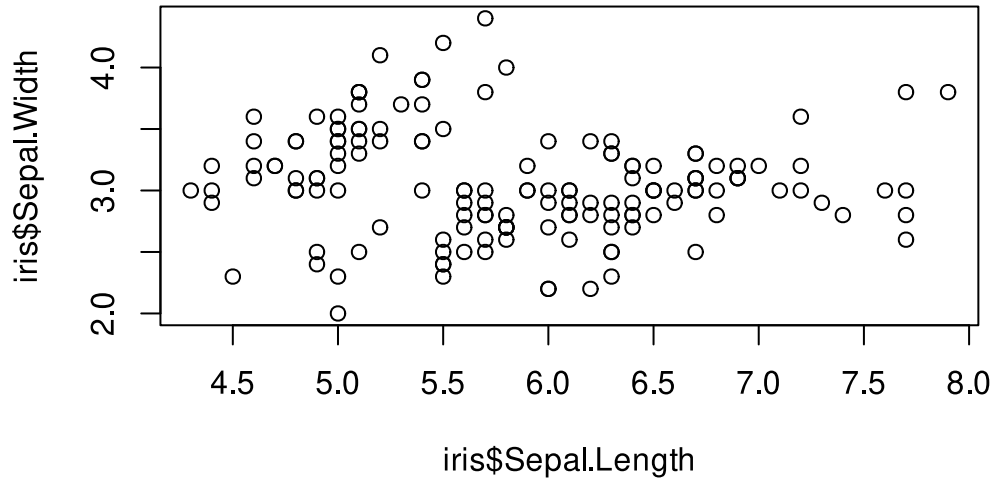


Figure 1: According to ChatGPT, the Iris data set is a well-known dataset in the field of machine learning and statistics, often used for benchmarking algorithms. It consists of 150 observations of iris flowers from three species: *Iris setosa*, *Iris versicolor*, and *Iris virginica*. Each observation includes four features: sepal length, sepal width, petal length, and petal width, all measured in centimeters. This dataset is particularly useful for classification tasks as the species are distinct and easily separable based on the given measurements. In R, the dataset can be accessed using the `datasets` package with the command `data(iris)`.

5.1. Subfigures

Figures can be placed using code, Typst blocks, or using [Quarto's figure syntax](#). To make a figure with subfigures, try:

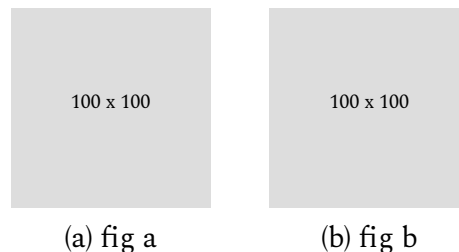


Figure 2: Caption for the subfigures 1.

6. Math works

You can use LaTeX math in Typst-powered Quarto documents:

$$3 + 3 \cdot \epsilon$$

Even better, you can use a Typst block to use the Typst syntax, allowing you to use both in one document:

$$A = \pi r^2$$

6.1. Using `typst-function` extension

This template embeds the `typst-function` extension, which lets you use Quarto syntax to call Typst functions.

6.2. Including Raw Typst

This template supports including raw Typst blocks and provides a `title-raw-block` function to make it easier to include raw Typst blocks with filenames (or other titles).

```
test.R
```

```
test <- function() {  
  x <- rnorm(100, 3, 1)  
  mean(x) - 3  
}
```

6.2.1. References

Reference are automatically placed at the end of the document. The magic `refs` div does not work by default in typst when `citeproc: false`, see [this issue](#). This format, as of v1.1.0, bundles a filter `typst-refs` to handle this. Alternatively, if you are okay using a different citation processor, set `citeproc: true` in the YAML.

References

Ho, Daniel E, Kosuke Imai, Gary King, and Elizabeth A Stuart. 2007. "Matching as Nonparametric Preprocessing for Reducing Model Dependence in Parametric Causal Inference." *Political Analysis* 15 (3): 199–236.

King, Gary, Robert O Keohane, and Sidney Verba. 1994. *Designing Social Inquiry: Scientific Inference in Qualitative Research*. Princeton University Press.

A. Appendix formatting

We can put more stuff here. Note that the lettering and numbering gets updated. Below we've added a section with a figure, [Figure A1](#).

A.1. Appendix subsection

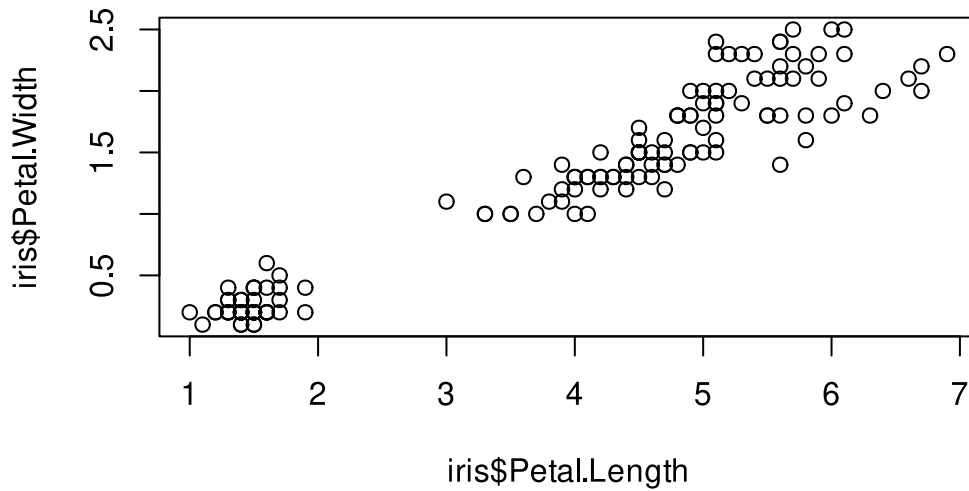


Figure A1

A.1.1. Subsubsection

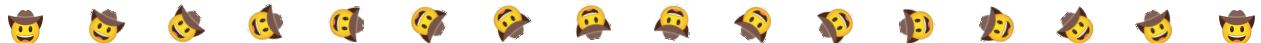
With a surprise sub-sub-section.

Table A1: Top R package downloads in June 2024

rank	package	count
1	rlang	1672290
2	ggplot2	1624767
3	cli	1389491
4	Rcpp	1386753
5	dplyr	1361177

B. Another appendix section

Why use Typst?



Can you make a cowboy do a flip this easily in LaTeX?