

Formatting Technical Memo with Quarto

A minimum example using the quarto-tech-memo extension

First Author

Magic Technologies SA
abc@email.ch

Summary This is an minimum technical memo containing the usual elements of technical writing: figure, table, equation, citation, bibliography, code snippet, and appendix. The document is rendered to PDF by Quarto with a custom extension which provides several styles. A memo style (inspired from Tufte handout style) for brief report, a 2-column paper style for scientific article, and a A3 poster style. The PDF is rendered with the modern Typst engine, which is built into Quarto.

Keywords: Quarto, technical writing, memo, paper, poster

1 Overview

The minimum example contains all standard elements of a technical writing to illustrate the formatting styles provided by the quarto-tech-memo extension. Let's start with some math: $e^{\pi} + 1 = 0$ is an inline equation, Eq. (1) is a numbered equation. Here is a physical quantity with unit: $1\ \mu\text{T}$ (1 microtesla), note the thin non-breaking space. In IEEE legacy PDF, one need to use the math mode or the SI unit package to render the greek letters.

In memo style, margin notes are supported, including small inline images. They shouldn't be used in 2-column paper style.

$$\nabla \times \mathbf{B} = \mu_0 \mathbf{j} + \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t} \quad (1)$$

[1] is a citation in IEEE style. Figure 1 shows a numbered figure. Table 1 is a numbered table.

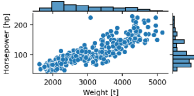


Figure 1: Figure caption.

1

Table 1: Example of engineering table

Parameter	Symbol	Typ	Unit
Hall sensitivity	S_H	0.2	V/T
Effective nr. of bits	ENOB	12	-

Syntax highlighting is supported in code snippet too. Moreover, callout boxes are available for tips, notes, warnings, and important remarks, with appropriate icons or colors.

```
def f(x, square=True):  
    # Python code snippet  
    return (x**2) if square else x
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Markdown syntax

The manuscript is written in Markdown, a plain-text easy syntax.

2 Dummy text

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References

[1] G. Close, "Technical Writing and Publishing Data-Rich Articles with Quarto," Sep. 22, 2022. [Online]. Available: <https://howarddatascience.com/technical-writing-and-publishing-data-rich-articles-with-quarto-d81a56bca64/>

memo1

2

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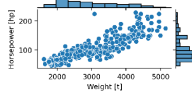


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References

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1

memo2

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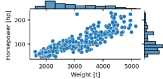


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poster

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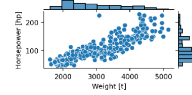


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