Demo arXiv template

Steven Bickley

Son Tran

Abstract

This document is only a demo explaining how to use the template.

# Introduction

This is an example of how to use this template to render journal articles. This template is inspired by the arXiv rticles template for rmarkdown, repurposed for the Quarto publishing system.

This quarto extension format supports PDF and HTML outputs. This template is primarily focused on generating acceptable outputs from Quarto, but renders an acceptable HTML output using the standard Quarto options.

# Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

# Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

1 + 1

2

This format hide chunks by default, but you can set echo option to true locally in the chunk:

|  |
| --- |
| Figure 1: A plot |

# Markdown Basics

This section of the template is adapted from [Quarto’s documentation on Markdown basics](https://quarto.org/docs/authoring/markdown-basics.html).

## Text Formatting

| Markdown Syntax | Output |
| --- | --- |
| \*italics\* and \*\*bold\*\* | *italics* and **bold** |
| superscript^2^ / subscript~2~ | superscript2 / subscript2 |
| ~~strikethrough~~ | ~~strikethrough~~ |
| `verbatim code` | verbatim code |

## Headings

| Markdown Syntax | Output |
| --- | --- |
| # Header 1 | Header 1 |
| ## Header 2 | Header 2 |
| ### Header 3 | Header 3 |

## Equations

Use $ delimiters for inline math and $$ delimiters for display math. For example:

| Markdown Syntax | Output |
| --- | --- |
| inline math: $E = mc^{2}$ | inline math: |
| display math:  $$E = mc^{2}$$ | display math: |

If assigned an ID, display math equations will be automatically numbered:

## Other Blocks

| Markdown Syntax | Output |
| --- | --- |
| > Blockquote | Blockquote |
| | Line Block | Spaces and newlines | are preserved | Line Block    Spaces and newlines    are preserved |

## Cross-references

|  |
| --- |
| Figure 2: A sunflower |

| Markdown Format | Output |
| --- | --- |
| @fig-sunflower is pretty. | [Figure 2](#fig-sunflower) is pretty. |
| @tbl-glm was created from code. | **?@tbl-glm** was created from code. |
| @sec-crf is this section. | [Section 5.4](#sec-crf) is this section. |
| @eq-black-scholes is above. | [Equation 1](#eq-black-scholes) is above. |

See the [Quarto documentation on cross-references for more](https://quarto.org/docs/authoring/cross-references.html).

# Citations

This section of the template is adapted from the [Quarto citation documentation](https://quarto.org/docs/authoring/footnotes-and-citations.html).

bla bla bla (Bai et al. 2022)

Quarto supports bibliography files in a wide variety of formats including BibTeX and CSL. Add a bibliography to your document using the bibliography YAML metadata field. For example:

---  
title: "My Document"  
bibliography: references.bib  
---

See the [Pandoc Citations](https://pandoc.org/MANUAL.html#citations) documentation for additional information on bibliography formats.

## Citation Syntax

Quarto uses the standard Pandoc markdown representation for citations. Here are some examples:

| Markdown Format | Output |
| --- | --- |
| Blah Blah [see @knuth1984, pp. 33-35; also @wickham2015, chap. 1] | Blah Blah (see **knuth1984?**; also **wickham2015?**) |
| Blah Blah [@knuth1984, pp. 33-35, 38-39 and passim] | Blah Blah (**knuth1984?** and passim) |
| Blah Blah [@wickham2015; @knuth1984]. | Blah Blah (**wickham2015?**; **knuth1984?**). |
| Wickham says blah [-@wickham2015] | Wickham says blah (**wickham2015?**) |

You can also write in-text citations, as follows:

| Markdown Format | Output |
| --- | --- |
| @knuth1984 says blah. | (**knuth1984?**) says blah. |
| @knuth1984 [p. 33] says blah. | (**knuth1984?**) says blah. |

See the [Pandoc Citations](https://pandoc.org/MANUAL.html#citations) documentation for additional information on citation syntax.

To provide a custom citation stylesheet, provide a path to a CSL file using the csl metadata field in your document, for example:

---  
title: "My Document"  
bibliography: references.bib  
csl: nature.csl  
---

# References

Bai, Yuntao, Saurav Kadavath, Sandipan Kundu, Amanda Askell, Jackson Kernion, Andy Jones, Anna Chen, et al. 2022. “Constitutional AI: Harmlessness from AI Feedback.” arXiv. <https://doi.org/10.48550/arXiv.2212.08073>.