
DEMO ARXIV TEMPLATE

A PREPRINT

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ABSTRACT

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

Keywords template • demo

1 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 L^AT_EX outputs from Quarto, but renders an acceptable HTML output using the standard Quarto options.

2 Quarto

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

3 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] 2

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

```
# install.packages("broom")
# install.packages("kableExtra")
data("quine", package = "MASS")
m_pois <- glm(Days ~ (Eth + Sex + Age + Lrn)^2, data = quine, family = poisson)
kableExtra::kable_styling(
  kableExtra::kbl(broom::tidy(m_pois))
)
```

Table 1: A table.

term	estimate	std.error	statistic	p.value
(Intercept)	2.9324591	0.0982638	29.8427305	0.0000000
EthN	-0.1739938	0.1213351	-1.4339937	0.1515741
SexM	-0.7145197	0.1222943	-5.8426235	0.0000000
AgeF1	-0.0426993	0.1269111	-0.3364507	0.7365310
AgeF2	-0.0863239	0.1616403	-0.5340495	0.5933073
AgeF3	-0.1528978	0.1189753	-1.2851227	0.1987494
LrnSL	0.2160818	0.1455811	1.4842716	0.1377369
EthN:SexM	0.4390243	0.0920790	4.7679077	0.0000019
EthN:AgeF1	-0.9288934	0.1465738	-6.3373786	0.0000000
EthN:AgeF2	-1.3339773	0.1350383	-9.8785113	0.0000000
EthN:AgeF3	-0.1124246	0.1347842	-0.8341080	0.4042202
EthN:LrnSL	0.2641524	0.1137843	2.3215200	0.0202588
SexM:AgeF1	-0.0556536	0.1630311	-0.3413682	0.7328264
SexM:AgeF2	1.0994244	0.1528125	7.1945973	0.0000000
SexM:AgeF3	1.1594892	0.1385899	8.3663319	0.0000000
SexM:LrnSL	0.0414270	0.1371756	0.3019998	0.7626522
AgeF1:LrnSL	-0.1301879	0.1568800	-0.8298561	0.4066201
AgeF2:LrnSL	0.3734020	0.1456293	2.5640585	0.0103456
AgeF3:LrnSL	NA	NA	NA	NA

4 Markdown Basics

This section of the template is adapted from [Quarto's documentation on Markdown basics](#).

4.1 Text Formatting

Markdown Syntax	Output
<i>*italics*</i> and **bold**	<i>italics</i> and bold
^{superscript²} / _{subscript₂}	^{superscript²} / _{subscript₂}
~strikethrough~	strikethrough
<code>`verbatim code`</code>	verbatim code

4.2 Headings

Markdown Syntax	Output
# Header 1	5 Header 1
## Header 2	5.1 Header 2
### Header 3	5.1.1 Header 3

5.2 Equations

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

Markdown Syntax	Output
inline math: $E = mc^2$	inline math: $E = mc^2$
display math:	display math:
$E = mc^2$	$E = mc^2$

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

$$\frac{\partial C}{\partial t} + \frac{1}{2}\sigma^2 S^2 \frac{\partial^2 C}{\partial C^2} + rS \frac{\partial C}{\partial S} = rC \quad (1)$$

5.3 Other Blocks

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

5.4 Cross-references

Markdown Format	Output
@fig-sunflower is pretty.	Figure 1 is pretty.
@tbl-glm was created from code.	Table 1 was created from code.
@sec-crf is this section.	Section 5.4 is this section.
@eq-black-scholes is above.	Equation 1 is above.

See the [Quarto documentation on cross-references for more](#).

6 Citations

This section of the template is adapted from the [Quarto citation documentation](#).

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](#) documentation for additional information on bibliography formats.

6.1 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]	Blah Blah (see knuth1984? ; also wickham2015?)
also @wickham2015, chap. 1]	
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.



Figure 1: A sunflower

See the [Pandoc 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