Quarto vs R Markdown

For UC Meta

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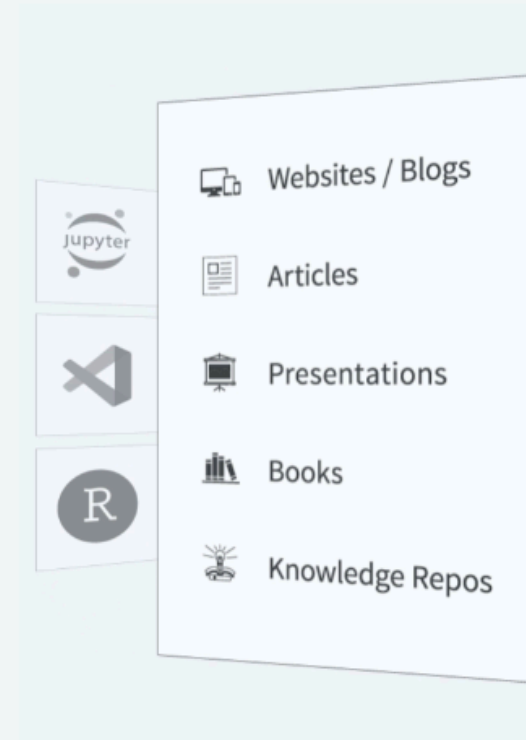University of Canterbury

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Quarto

Welcome to Quarto®

An open-source scientific and technical publishing system

- Author using Jupyter notebooks or with plain text markdown in your favorite editor.
- Create dynamic content with Python, R, Julia, and Observable.
- Publish reproducible, production quality articles, presentations, websites, blogs, and books in HTML, PDF, MS Word, ePub, and more.
- Share knowledge and insights organization-wide by publishing to Posit Connect, Confluence, or other publishing systems.
- Write using Pandoc markdown, including equations, citations, crossrefs, figure panels, callouts, advanced layout, and more.

Analyze. Share. Reproduce. You have a story to tell with data— tell it with Quarto.

Get Started   Guide

Jupyter

R

- Websites / Blogs
- Articles
- Presentations
- Books
- Knowledge Repos

Website

Quarto vs R Markdown

Quarto vs R Markdown

The key differences, and advantages for me, of using qmd instead of rmd include:

- removes the bookdown pkg as a dependency in my scientific writing, it has simpler and universal cross-referencing

- simpler integration with lua filters (I use them for author affiliation details)

- multi-language and multi-engine: Python, R, and JavaScript via integration with Jupyter, Knitr, and Observable.

- easy two column (and more) flexible content layouts for displaying images, code, text, tables, plots, anything

- Global chunk options set in YAML, rather than a separate setup chunk

- Easier to show verbatim chunks, good for writing tutorials and guides

- Chunk options as YAML with the special hashpipe `#|`

Other details I find satisfying:

- ~~fully~~ mostly back compatible with Rmd

- works well in VS Code, Emacs, etc., it's less bound to RStudio as an IDE

https://stackoverflow.com/questions/7089640/what-are-the-benefits-of-using-quarto-over-rmarkdown

Uses

- Create `executable manuscripts` with embedded code that can be easily formatted based on our needs (dissertations, manuscript etc.)

- Create teaching slides

- Blogging and website development

- With version control to share your work online (e.g., via GitHub)

Useful resources

- Quarto with RStudio

- Getting Help: Awesome Quarto, https://quarto.org, YouTube, social media.

THE END