

From [Posit PBC](#), the creators of RStudio

The data science IDE. Human-driven, AI-assisted.

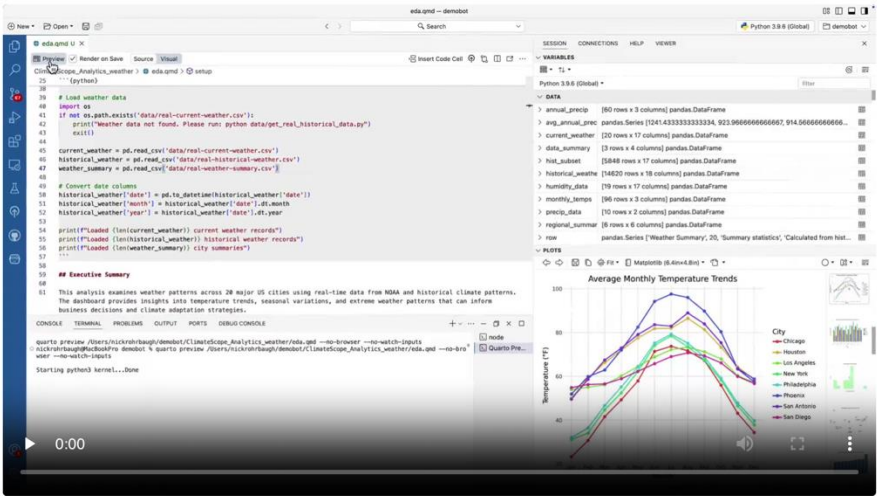
Move from question to insight to analysis, model, or application faster than ever before. Positron is the free IDE made specifically for data science and analysis with Python and R.

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Positron by Posit



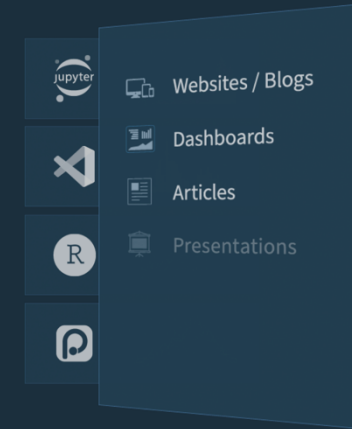
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Welcome to Quarto

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, dashboards, 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.

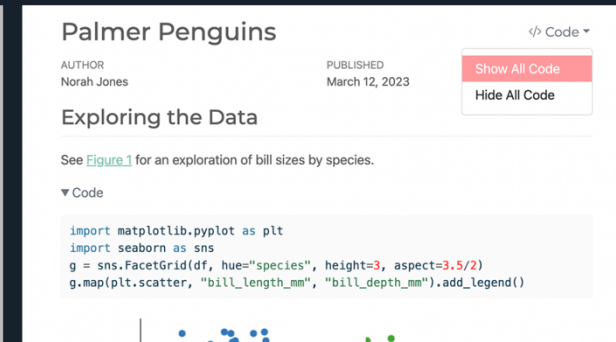
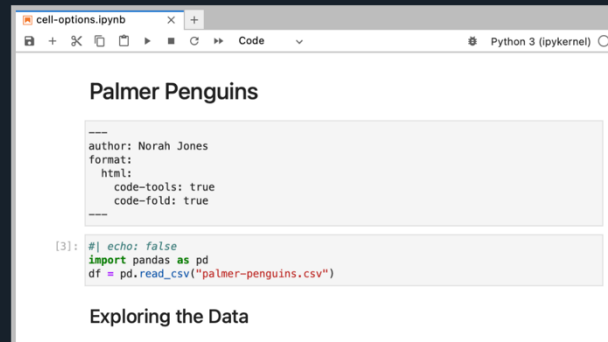
[Get Started](#)[Guide](#)

Hello, Quarto

[Python](#)[R](#)[Julia](#)[Observable](#)

Combine Jupyter notebooks with flexible options to produce production quality output in a wide variety of formats. Author using traditional notebook UIs or with a plain text markdown representation of notebooks.

Proudly supported by  **posit**



R Markdown vs. Quarto

Reproducible reporting frameworks for R

R Markdown

Est. 2014 · R-native, mature ecosystem

KEY FEATURES

- Renders via knitr → Markdown → pandoc
- Single-language: R only (with reticulate for Python)
- Output: HTML, PDF, Word, slides (ioslides/xaringan)
- Parameterized reports and R Notebooks
- Solutions on/off: manual — wire eval/echo to a params\$solutions flag per chunk

PROS

- Deep integration with the R/RStudio ecosystem
- Huge base of existing docs, templates, and Stack Overflow answers
- Lightweight, minimal extra tooling required

CONS

- Limited multi-language support
- Cross-referencing and citations are less flexible
- No longer under active feature development (in maintenance mode)

Quarto

Est. 2022 · Posit's multi-language successor

KEY FEATURES

- CLI-based, multi-language — still uses knitr for R chunks (renders .qmd files)
- Multi-language: R, Python, Julia, Observable JS
- Output: HTML, PDF, Word, books, websites, dashboards, revealjs
- Built-in cross-references, citations, and Mermaid/Graphviz diagrams
- Solutions on/off: native — render profiles + content-visible/hidden divs

PROS

- Actively developed, first-class support from Posit
- One framework across R, Python, and Julia projects
- Richer built-in project/book/website publishing system

CONS

- Newer — smaller (but fast-growing) community base
- Extra CLI dependency alongside R/RStudio
- Migrating legacy .Rmd projects takes some rework

Bottom line: *Quarto is the forward-looking choice for new or multi-language projects; R Markdown remains solid for existing, R-only pipelines.*