

WHAT IS QUARTO

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DEFINE

QUARTO

- Open-source publishing system
- Leveraged by multiple coding languages (Python, R, Julia, ObservableJS)
- Supported by multiple IDEs (VS Code, Jupyter, RStudio, Neovim)
- Can **publish** to multiple hosting targets (QuartoPub | GitHub Pages | Posit Connect | Netlify | Others)

NOTABLE

Everything I'm going to show you was coded with open-source tools and published via Quarto

TIDYVERSE

I'm going to use RStudio and freely publish to Quarto.pub

- Quarto further develops the workflow of **reproducible** computation by extending *markdown* and literate coding **workflows**

In much the same way that **Tidyverse** brings consistency and good documentation to base-R, and **Tidymodels** brings consistency and good documentation to modeling and ML, **Quarto** brings consistency and good documentation to reproducibility (i.e. [literate] coding.)

REPRODUCIBILITY PAYOFF

Reproducible workflows for *computation thinking*
data → analysis → publishing

- Do everything with code
- Derive reports from code

Quarto reports can be PDF, MSWord, Slides (PPTx, revealjs, etc.),
Websites, Dashboards, eBooks, Blogs, Interactivity apps (ObservableJS;
Shiny; more)

CITATIONS, TABLES, FIGURES, AND SCIENTIFIC NOTATION

- Quarto will generate citations and a bibliography in multiple styles
 - Can integrate with DOI/Zotero/.bib/.bibtex/Endnote ...
- Quarto generates numbering for tables and figures
- Excellent support for LaTeX equations and citations

REVIEW

Quarto helps you derive reports from code and facilitates publishing to your favorite host

NOTE:

Unlike many other tools, Quarto is open, does not lock-in to a proprietary host. You render Quarto reports that can be hosted anywhere, anytime. Quarto is about scholarly [scientific] communication.

RESOURCES

- Mine - YouTube
- Mock - YouTube
- Quarto Docs
 - get started
 - guides
 - reference
 - gallery

SHOW

Next: **Code as you like**