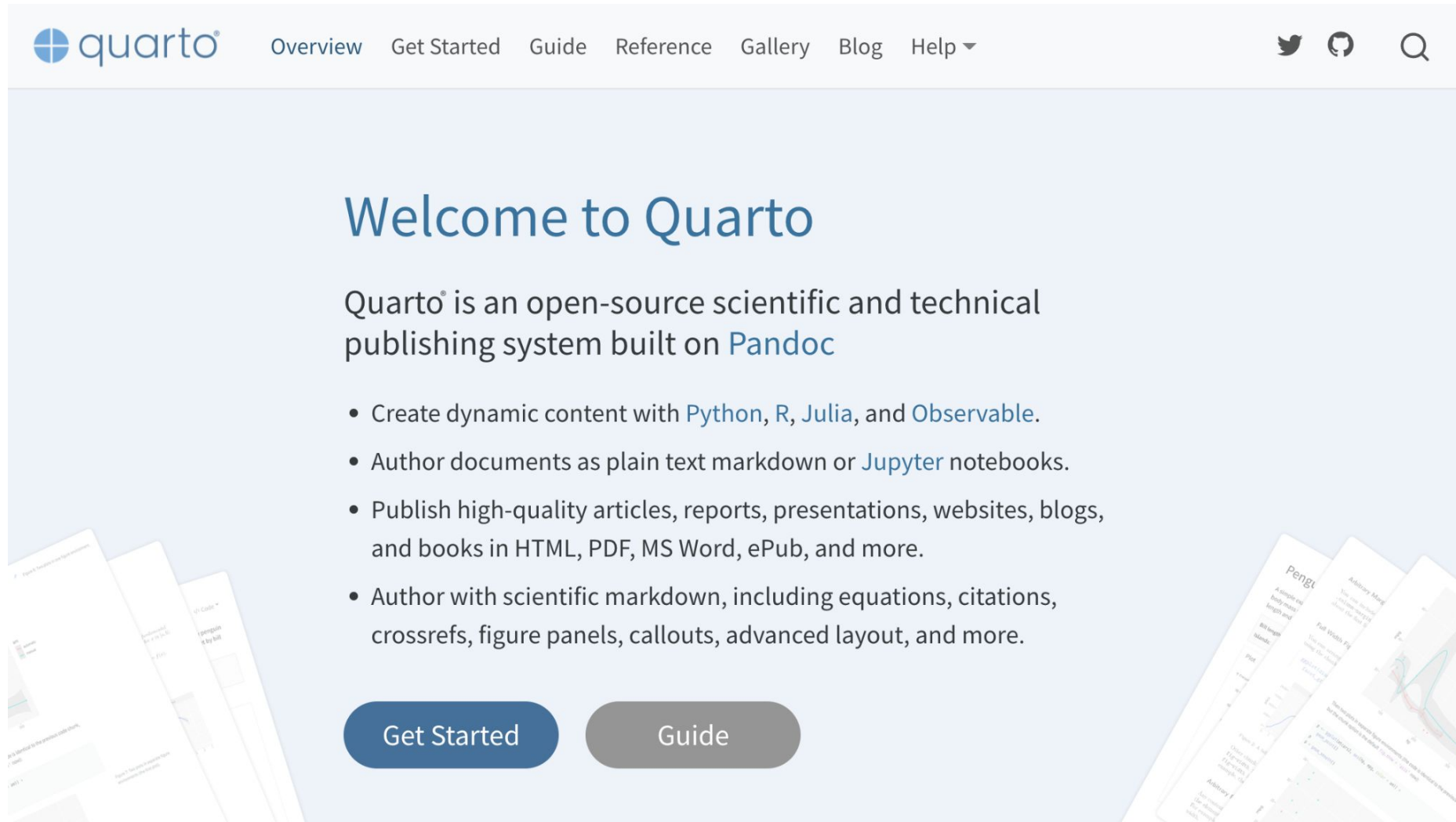


Using Quarto to showcase an ecosystem of open-source R packages for Pharmacometrics

Seth Green

Manager of Data Science Engineering at MetrumRG
R/Medicine – August 26, 2022



The screenshot shows the Quarto website homepage. At the top left is the Quarto logo, followed by navigation links: Overview, Get Started, Guide, Reference, Gallery, Blog, and Help. On the top right are social media icons for Twitter, GitHub, and a search icon. The main content area features a large heading 'Welcome to Quarto' and a sub-heading 'Quarto is an open-source scientific and technical publishing system built on Pandoc'. Below this is a list of four bullet points describing Quarto's capabilities. At the bottom of the main content area are two buttons: 'Get Started' and 'Guide'. The background of the main content area is a light blue gradient with faint images of documents and charts.

quarto® Overview Get Started Guide Reference Gallery Blog Help

Welcome to Quarto

Quarto® is an open-source scientific and technical publishing system built on [Pandoc](#)

- Create dynamic content with [Python](#), [R](#), [Julia](#), and [Observable](#).
- Author documents as plain text markdown or [Jupyter](#) notebooks.
- Publish high-quality articles, reports, presentations, websites, blogs, and books in HTML, PDF, MS Word, ePub, and more.
- Author with scientific markdown, including equations, citations, crossrefs, figure panels, callouts, advanced layout, and more.

Get Started Guide

Sorry, this is *not* a Quarto tutorial...

If that's what you're looking for, there are many excellent resources online:

- RStudio blog [introduction](#)
- Quarto.org documentation: [installation](#) and [tutorials](#)
- Recent [rstudio::conf presentation](#)
- Plenty of user blog posts:
 - [NASA Openscapes](#)
 - [Appsilon](#)

This *is* a success story, involving Quarto

Some highlights include:

- The power and beauty of developing your own ecosystem of R packages
- The importance of good examples and documentation
- How Quarto makes it easy to tie it all together and share your success with others

The MeRGE website, built with Quarto: <https://merge.metrumrg.com/zy8x3BETA7R5Ph/>

What is MeRGE?

The
Metrum
Research
Group
Ecosystem

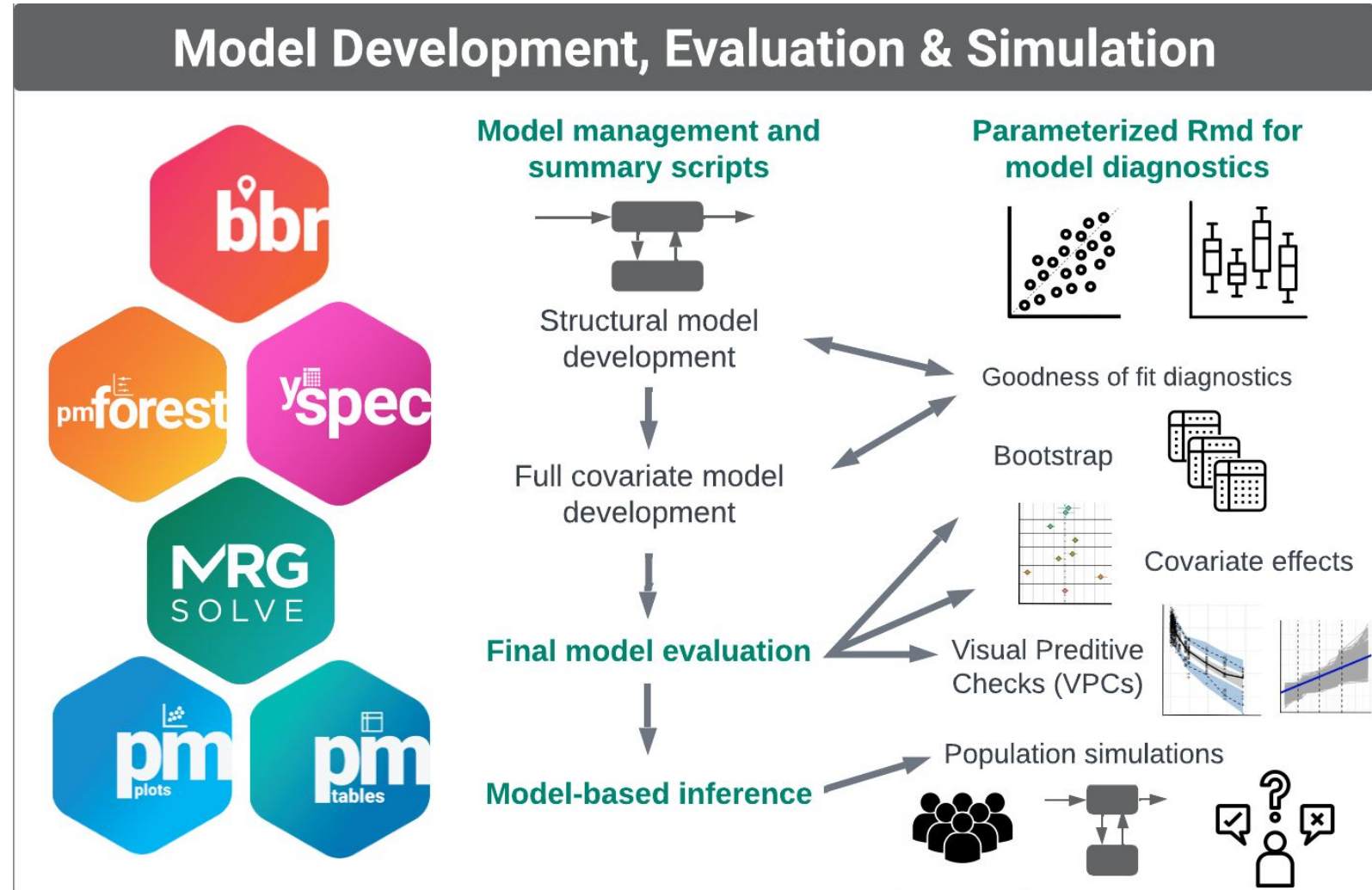


+



What is MeRGE?

The
Metrum
Research
Group
Ecosystem



Our journey to the MeRGE Expo

- Sharing code is better than writing new code...
- Getting code from a shared repo is better than sharing code...
- Using a package is better than copy/pasting from a repo...
- Having an ecosystem of packages is better than having one “kitchen sink” package...
- Having examples to show you how to use the ecosystem is better than trying to figure it out for yourself from documentation...
- Having those examples on a nice-looking website is the best.

Quarto tips and tricks

- Versatile and easy-to-manipulate layouts
 - Blog vs. Listing vs. Sidebar
 - Control layout and content ordering in one place
- Using `_variables.yaml`
 - Consistent descriptions and links for ecosystem packages
 - Linking to related articles or scripts in repo
- Code and narrative live together
 - Updates made in one place
 - Ability to render interactive RMDs from Quarto articles
- Quickly render and preview your content

MeRGE website: <https://merge.metrumrg.com/zy8x3BETA7R5Ph/>

Accompanying code repo:

<https://github.com/metrumresearchgroup/expo1-nonmem-foce/>

This website is still under development and feedback is welcome!

Thank You!