

Setting up Quarto

2024-01-23



1 Introduction

Quarto is an extension of the Rmarkdown ecosystem. It leverages the power of knitr and pandoc. From my perspective it provides a number of useful additional tools for literate programming and blogging.

I'm using quarto for my lab's home page with an embedded blog. ([focusonR](#)).

This post will include some of the most useful and interesting quarto tools presented in the context of a Palmer Penguins data set analysis.

To start a blog, say qblog, begin by running quarto create-project at the ~/prj level

```
quarto create-project qblog --type website:blog
```

This generates a project folder ~/prj/qblog: - cd to ~/prj/qblog/posts/ - for the first post, create a new directory, say setupquarto- cd to ~/prj/qblog/posts/setupquarto- edit the index.qmd file and add content.vim index.qmd'

The framework for a quarto blog can be quite minimal. For example the following set of files is sufficient to start a useful blog:

```
.
|-- _quarto.yml
|-- index.qmd
|-- posts
|   |-- firstpost
|       |-- index.qmd
```

with file contents:

Listing 1 _quarto.yml

```
project:
  type: website
```

Listing 2 index.qmd

```
---
title: "Minimal Blog"
listing:
  contents: posts
---
```

Listing 3 posts/firstpost/index.qmd

```
---
title: "First post on Blog"
author: "Joe Blogger"
date: last-modified
---
```

This is the first post.

minimal_blog

Nov 30, 2023
Joe Blogger

First post on Blog

This is the first post.

Contrast to Rob Heyneman's template blog:

```
> tree -L 1 --charset unicode
.
|-- _quarto.yml
|-- _site
|-- about
|-- blog
|-- header.html
|-- index.qmd
|-- mariecurie.png
|-- publications
|-- quartoweb.Rproj
|-- software
|-- styles.css
|-- talks
`-- teaching
```

References:

Useful archive:

mcanouil/awesome-quarto: [A curated list of Quarto talks, tools, examples & articles](#)

Consider some ideas from

- Rob Hyndman - [Template of quarto website](#)
- Eric Ekholm - [Modifying the Default Quarto Blog Structure](#)
- Allison Hill - [We don't talk about Quarto](#)

- Nick Tierney - [Notes on Changing from Rmarkdown/Bookdown to Quarto](#)

2 After rendering the minimum blog with the default theme. We have the following tree

To understand better we need to delve into the `__site/site_libs` directory. CSS and JS

```
.
|-- _quarto.yml
|-- _site
|   |-- index.html
|   |-- listings.json
|   |-- posts
|   |   |-- setup_R_vimtex_ultisnips
|   |   |   |-- img
|   |   |   |   |-- vimR.png
|   |   |   |-- index.html
|   |   |-- setupgit
|   |   |   |-- img
|   |   |   |   |-- git.png
|   |   |   |-- index.html
|   |-- search.json
|   |-- site_libs
|   |   |-- bootstrap
|   |   |   |-- bootstrap-icons.css
|   |   |   |-- bootstrap-icons.woff
|   |   |   |-- bootstrap.min.css
|   |   |   |-- bootstrap.min.js
|   |   |-- clipboard
|   |   |   |-- clipboard.min.js
|   |   |-- quarto-html
|   |   |   |-- anchor.min.js
|   |   |   |-- popper.min.js
|   |   |   |-- quarto-syntax-highlighting.css
|   |   |   |-- quarto.js
|   |   |   |-- tippy.css
|   |   |   |-- tippy.umd.min.js
```

```

|      |-- quarto-listing
|      | |-- list.min.js
|      | `-- quarto-listing.js
|      |-- quarto-nav
|      | `-- quarto-nav.js
|      `-- quarto-search
|          |-- autocomplete.umd.js
|          |-- fuse.min.js
|          `-- quarto-search.js
|-- index.qmd
`-- posts
    |-- setup_R_vimtex_ultisnips
    | |-- img
    | | |-- git1.png
    | | `-- vimR.png
    | `-- index.qmd
    `-- setupgit
        |-- img
        | `-- git.png
        `-- index.qmd

```