

Setting up Quarto

Ronald (Ryy) Glenn Thomas

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Figure 1: quarto

1 Introduction

Quarto is an extension of the Rmarkdown ecosystem. It leverages the power of **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. ([rgtlab](#)).

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

Start with running quarto create-project at ~/prj level

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

This generates a project folder /Users/zenn/Dropbox/prj/qblog:

- cd to ~/qblog/posts/
- create a new directory, say setupquarto
- cd to ~/qblog/posts/setupquarto
- vim index.qmd

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

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

with file contents:

```
cat _quarto.yml
project:
  type: website

cat index.qmd
---
title: "Minimal Blog"
listing:
  contents: posts
---

cat 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.

To create a minimal shell of a blog type:

```
> quarto create-project minimal_blog --type website:blog
```

This creates the following file structure:

```
> tree --charset unicode
.
|-- _quarto.yml
|-- about.qmd
|-- index.qmd
|-- posts
|   |-- welcome
|   |-- index.qmd
|-- sudoku.jpg
```

Now list the content of the individual files.

```
3 directories, 5 files
> cat _quarto.yml
project:
  type: website

website:
  title: "minimal_blog"
  navbar:
    right:
      - about.qmd
> cat about.qmd
---
```

```
title: "About"
image: sudoku.jpg
about:
  template: broadside
---
```

About this blog

```
> cat index.qmd
```

```
---
title: "minimal_blog"
listing:
  contents: posts
  type: default
---
```

```
> cat posts/welcome/index.qmd
```

```
---
title: "Welcome To My Blog"
author: "Tristan O'Malley"
date: "2023-10-14"
categories: [news]
---
```

This is the first post in a Quarto blog. Welcome!

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 Eklholm - [Modifying the Default Quarto Blog Structure](#)
- Allison Hill - [We don't talk about Quarto](#)
- Nick Tierney - [Notes on Changing from Rmarkdown/Bookdown to Quarto](#)