

Setting up Quarto

Ronald (Ryy) Glenn Thomas

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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
---
```

minimal_blog

Nov 30, 2023
Joe Blogger

First post on Blog

This is the first post.

Listing 3 posts/firstpost/index.qmd

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

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
```

Refererences:

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

```