

KGW Portfolio Notes

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Preface

This is a Quarto book. My portfolio. If I can make it work.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

1 + 1

[1] 2

1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

```
1 + 1
```

```
[1] 2
```

Part I

Part 1

2 Quarto Building Notes

2.1 Main Quarto Sources

Main Quarto Guide:

<https://quarto.org/docs/guide/>

! Important

As you preview your book, chapters will be rendered and updated. However, if you make changes to global options (e.g. `_quarto.yml` or included files) you need to fully re-render your book to have all of the changes reflected. Consequently, you should always fully `quarto render` your site before deploying it, even if you have already previewed changes to some pages with the preview server.

2.1.1 Publishing

When you are ready to publish the book, use the `render` command to render all output formats:

Listing 2.1 Terminal

```
quarto render
```

If you pass no arguments to `quarto render`, all formats will be rendered. You can also render individual formats via the `--to` argument:

Listing 2.2 Terminal

```
quarto render          # render all formats
quarto render --to pdf # render PDF format only
```

The output of your book will be written to the `_book` sub-directory of your book project:

Listing 2.3 Terminal

```
mybook/
  _book/
    index.html # and other book files
    mybook.pdf
    mybook.epub
```

See the documentation on [Publishing Websites](#) for details on how to publish books to GitHub Pages, Netlify, and other services. Note that in that documentation the `output-dir` may be referred to as `_site`: for publishing books you should use `_book` rather than `_site`.

2.2 To Publish to Quarto Pub

2.3 Publish Command

The `quarto publish` command is the easiest way to publish locally rendered content. From the directory where your project is located, execute the `quarto publish` command for Quarto Pub:

Listing 2.4 Terminal

```
quarto publish quarto-pub
```

If you haven't published to Quarto Pub before, the publish command will prompt you to authenticate. After confirming that you want to publish, your content will be rendered and deployed, and then a browser opened to view your site.

2.4 toc table of contents info

<https://quarto.org/docs/output-formats/html-basics.html>

You can customize the table of contents (TOC) for HTML output formats using the `toc` option in your document or project YAML. Here are some common configurations:

- `toc: true` - Enables the TOC with default settings.
- `toc: false` - Disables the TOC.
- `toc: {depth: 2}` - Sets the depth of the TOC to 2 levels.
- `toc: {numbered: true}` - Enables numbered entries in the TOC.

- `toc: {float: true}` - Makes the TOC float alongside the content.
- `toc: {position: left}` - Positions the TOC on the left side of the page.
- `toc: {collapse: true}` - Allows sections in the TOC to be collapsible. You can combine these options as needed. For example, to create a floating, numbered TOC with a depth of 3 levels, you would use:

```
toc:
  depth: 3
  numbered: true
  float: true
```

2.5 Tags

#tag:projects #tag:data #todo

You can add tags to your Quarto documents using the `tags` field in the YAML front matter. Tags help categorize and organize your content, making it easier to find related documents. Here's how you can add tags:

```
---
title: "My Document"
tags: [data, analysis, R]
---
```

In this example, the document is tagged with “data”, “analysis”, and “R”. You can also add tags in a more structured way using a list:

```
---
title: "My Document"
tags:
  - data
  - analysis
  - R
---
```

Tags can be used for filtering and searching within your Quarto projects, especially when you have multiple documents. They can also be useful for generating tag clouds or lists of related content if you are building a website or blog with Quarto.

More Quarto Resources

- Quarto Official Documentation: <https://quarto.org/docs/>
- Quarto GitHub Repository: <

2.5.1 Invisible tags when rendered

You can add invisible tags to your Quarto documents by using HTML comments in the YAML front matter. This way, the tags will not be displayed in the rendered output but will still be present in the source code for organizational purposes. Here's how you can do it:

```
---
title: "My Document"
<!--
tags: [data, analysis, R]
-->
---
```

In this example, the tags “data”, “analysis”, and “R” are included in an HTML comment, making them invisible in the rendered document.

You can also use a list format within the HTML comment:

```
---
title: "My Document"
<!--
tags:
  - data
  - analysis
  - R
-->
---
```

This method allows you to keep your tags organized without displaying them in the final output.

3 Hexwall

3.1 Hex file resources

3.1.1 Shiny App for creating hex

<https://connect.thinkr.fr/hexmake/>

3.2 FIX - show examples of RRL hex

3.3 FIX - get all of these downloaded

<https://github.com/rstudio/hex-stickers>

3.4 FIX - fix warning for using deprecated purrr in hexwall.R file

Warning: `invoke()` was deprecated in `purrr 1.0.0`. Please use `exec()` instead. This warning is displayed once every 8 hours. Call `lifecycle::last_lifecycle_warnings()` to see where this warning was generated.

3.5 load hexwall.R function

```
source("~/Documents/r-studio-and-git/KGW_Portfolio_Notes/hexwall.R")
```

Linking to ImageMagick 6.9.13.29

Enabled features: cairo, fontconfig, freetype, heic, lcms, pango, raw, rsvg, webp

Disabled features: fftw, ghostscript, x11

```
test <- hexwall("~/Documents/r-studio-and-git/KGW_Portfolio_Notes/my_stickers", sticker_row_size = 10)
```

Warning: `invoke()` was deprecated in purrr 1.0.0.
i Please use `exec()` instead.

test



3.6 FIX - getting to export to PDF

3.7 FIX - getting webshot and phantomjs working

```

source("~/Documents/r-studio-and-git/my_hex_stickers/hexwall/hexwall.R") ## call
hexwall function and assign to "test" ## this sometimes get an error - try adjusting
sticker_row_size test <- hexwall("~/Documents/r-studio-and-git/my_hex_stickers/my_stickers",
sticker_row_size = 7, sticker_width = 200) test

png("~/Documents/r-studio-and-git/my_hex_stickers/hexwall/samplehex/test123.png")
hexwall("~/Documents/r-studio-and-git/my_hex_stickers/hexwall/samplehex", sticker_row_size
= 4, sticker_width = 200) image_write(test, "~/Documents/r-studio-and-git/my_hex_stickers/hexwall/sample"
dev.off()

hex_table <- data.table

```

3.8 FIX - data.table is not working properly – needs to be fixed

It seems to be reading, but not displaying in data.table format correctly.
It works within R, but not in Quarto when rendered.

3.9 FIX - data.table giving a warning about reading in last line

```
#library(data.table)
hex_table <- datatable(read.csv("~/Documents/r-studio-and-git/my_book_again/my_stickers_data.csv"))
hex_table
```

file:///private/var/folders/sf/d810pt617h181j949xmh0yvh0000gn/T/Rtmp1ojQsC/file395b44b2cbe7

Show entries

Search:

	Name	Type	Downloaded	Added_To_Hexwall	Official.	Source	Notes	Last_Updated
1	Rkaggle	Package	Y	Y	Y	https://github.com/benymindsmith/RKaggle	N/A	11/9/25
2	RRL	Company	Y	Y	N	Selfmade	N/A	Unknown
3	Leaflet	Package	N	N	N	https://r-graph-gallery.com/package/leaflet.html	No official hex image	11/9/25

Showing 1 to 3 of 3 entries

Previous Next

```
#hex_table_as_tibble <- as_tibble(hex_table)
#hex_table_as_tibble
```

Part II

Part 2

4 Projects - Hex

- Get Hexwall working
- Get Hexwall working with maps
- Make a RRL Hex with Shiny App
- Make a RRL Hex with hexSticker package
- Get a Shiny Hexwall working
- Get a Shiny Hexwall working with maps
- Get a Shiny Hexwall working with multiple map choices
- Get an updated Hexwall working with an input of a hex
- Data loaded
- Need to preprocess
- Pending
- Some progress
- No progress
- Stalled
- New
- Ongoing
- Completed
- Scheduled
- Important
- Private
- Public
- Testing
- Maintenance
- Documentation
- Ideas
- Design
- Analysis
- Visualization
- Automation
- Research

- Integration
- Configuration
- Cleanup
- Exploration
- Organization
- Calculation
- Foundation
- Experimentation
- Toolbox
- Security
- Networking
- Cloud
- Hardware
- Packaging
- Development
- Testing
- Design
- Documentation
- Deployment
- Maintenance
- Collaboration
- Management
- Presentation

5 Summary

In summary, this book has no content whatsoever.

```
1 + 1
```

```
[1] 2
```

References

- Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.