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.

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```

```
[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`.

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_s
```

```
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_
hex_table
```

```
file:////private/var/folders/sf/d810pt617h181j949xmh0yvh0000gn/T/RtmpoS01Ld/filee9243d4186bd/
```

Show 10 entries Search:

	Name	Type	Downloaded	Added_To_Hexwall	Official.	Source	Notes	Last_Updat
1	Rkaggle	Package	Y	Y	Y	https://github.com/benyamindsmith/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 1 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.