

# **KGW Portfolio Notes**

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# Table of contents

<b>Preface</b>	<b>3</b>
<b>1 Introduction</b>	<b>4</b>
<b>I Part 1</b>	<b>5</b>
<b>2 Quarto Building Notes</b>	<b>6</b>
2.1 Main Quarto Sources . . . . .	6
2.1.1 Publishing . . . . .	6
<b>3 Hexwall</b>	<b>8</b>
3.1 Hex file resources . . . . .	8
3.1.1 Shiny App for creating hex . . . . .	8
3.2 FIX - show examples of RRL hex . . . . .	8
3.3 FIX - get all of these downloaded . . . . .	8
3.4 FIX - fix warning for using deprecated purrr in hexwall.R file . . . . .	8
3.5 load hexwall.R function . . . . .	8
3.6 FIX - getting to export to PDF . . . . .	9
3.7 FIX - getting webshot and phantomjs working . . . . .	9
3.8 FIX - data.table is not working properly – needs to be fixed . . . . .	10
3.9 FIX - data.table giving a warning about reading in last line . . . . .	10
<b>II Part 2</b>	<b>13</b>
<b>4 Projects - Hex</b>	<b>14</b>
<b>5 Summary</b>	<b>16</b>
<b>References</b>	<b>17</b>

# 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_size = 7, sticker_width = 200)
```

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/d810pt617h181j949xmh0yvvh0000gn/T/RtmpT1QEqK/filee4c732cc0e5b,

Show

10

▼
entries

Search:

	Name	Type	Downloaded	Added_To_Hexwall	Official.	Source	Notes	Last_Update
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.

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[1] 2



## References

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