

my_book_again

Kevin Williams

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Preface

This is a Quarto book.

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
```

1.1 more

1.1.1 more a

1.1.2 more b

1.1.3 more c

1.2 less

1.3 true

1.3.1 ture z

```
true za
```

1.3.2 ffg

1.4 qwgwe=====

Part I

Part 1

2 Meat

2.1 this is the meat of things

2.1.1 this is not the meat of things

3 why_me

3.1 getting harder b bb

4 Hexwall

5 Projects - Hexwall

5.1 Hex file resources

5.1.1 Shiny App for creating hex

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

6 FIX - get all of these downloaded

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

6.1 load hexwall.R function

```
source("~/Documents/r-studio-and-git/my_book_again/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/my_book_again/my_stickers", sticker_row_size =
```

Warning: `invoke()` was deprecated in purrr 1.0.0.

i Please use `exec()` instead.

```
test
```



```
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/samplehex")  
dev.off()  
  
hex_table <- data.table
```

7 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.

8 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_
```

```
Warning in read.table(file = file, header = header, sep = sep, quote = quote, :
incomplete final line found by readTableHeader on
'~/Documents/r-studio-and-git/my_book_again/my_stickers_data_list/hex_data.csv'
```

```
hex_table
```

```
PhantomJS not found. You can install it with webshot::install_phantomjs(). If it is installed
```

```
file:///private/var/folders/sf/d810pt617h181j949xmh0vh0000gn/T/RtmpESujxC/file2b6920ecc47c,
```

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

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

Part II

Projects

9 Projects - Creating Projects2

9.0.1 Creating a New Project

To create a new project, follow these steps: Make this your working directory: ~/Documents/r-studio-and-git

In console: library(usethis)

usethis::create_project("~/Documents/r-studio-and-git/YOUR-PROJECT-NAME") This will create a new directory for your project and open it in RStudio. It will also create a default R project file (.Rproj) for you. It will also create a readme file for you. It will also create a .gitignore file for you.

9.0.2 Setting Up Version Control with Git

To set up version control with Git for your new project, follow these steps: In console: usethis::use_git() This will initialize a Git repository in your project directory. It will also create a .git directory to track changes. It will also make an initial commit with the existing files in your project. **### Connecting to GitHub** To connect your local Git repository to a remote repository on GitHub, follow these steps: First, create a new repository on GitHub without a README, .gitignore, or license. Then, in console: usethis::use_github() This will create a new repository on GitHub and link it to your local Git repository. It will also push your initial commit to the remote repository on GitHub. **### Summary** You have now created a new R project, set up version control with Git, and connected it to a remote repository on GitHub. You can now start working on your project and use Git to track changes and collaborate with others.

9.0.3 add starting files

```
usethis::use_r("import") # for R scripts under "R" folder usethis::use_r("tidy") # for R scripts under "R" folder
```

9.0.4 add data folder

```
usethis::use_data_raw() # for raw data under "data-raw" usethis::use_directory("DATA") #  
for processed data under "data"
```

9.0.5 fixing and updating README.md file with github info

When README.md file was first created, it does not render properly on GitHub.

To fix this, follow these steps:

1. Open README.md file in RStudio.

2. Add the following YAML header at the top of the file:

```
--- title: "Project Title" #optional author: "Your Name" # optional date: "2024-06-10" #op-  
tional output: github_document ---
```

3. Save the file. 4. In console, run the following command to render the README.md file: rmarkdown::render("README.md") 5. Commit and push the changes to GitHub. This will update the README.md file to render properly on GitHub with the specified title, author, and date.

You will need to render the README.md file each time you make changes to it.

10 Projects - Creating Projects2

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```

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When README.md file was first created, it does not render properly on GitHub.

To fix this, follow these steps:

1. Open README.md file in RStudio.
2. Add the following YAML header at the top of the file:
31b8e172-b470-440e-83d8-e6b185028602:dAB5AHAAZQA6AFoAUQBBAHgAQQBEAGcAQQBNAFEAQQA1A
b470-440e-83d8-e6b185028602
3. Save the file.
4. In console, run the following command to render the README.md file: rmarkdown::render("README.md")
5. Commit and push the changes to GitHub. This will update the README.md file to render properly on GitHub with the specified title, author, and date.
You will need to render the README.md file each time you make changes to it.

11 Projects - Hex2

- 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