Quarto Books 101

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Preface

This is a Quarto book.

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

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1 Introduction

This is a book created from markdown and executable code.

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

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2 Getting Started

1. RStudio IDE > `New Project` > `New Directory` > `Quarto Book`
2. Develop pages via-a-vis this template, or [quarto documentation for creating books](#)
3. Build tab > Render book
4. Publish to Quarto.pub (optional)

   - Terminal > `quarto publish quarto-pub`

3 Data wrangling

The Tidyverse is a dialect of R. When you load the tidyverse `library(tidyverse)` , R will import eight libraries. Among these eight include {reader} for importing CSV data; {dplyr} and {tidyr} for data wrangling; {ggplot2} for visualizations.

3.0.1 Import Data

Find the data import wizard in the Environment tab. Use that to help compose your data import statements.

For example

- `readr::read_csv(my_csv_file.csv)`
- `readxl::read_excel(my_excel_file.xlsx)`
- `haven::read_stata(my_stata_file.dta)`

3.0.2 Data wrangling

Use {dplyr} for basic wrangling

- `select()` columns
- `filter()` rows
- `mutate()` new or existing variables
- `group_by()` and `summarize()` to get column totals
- `count()` to generate simple tallys and frequencies

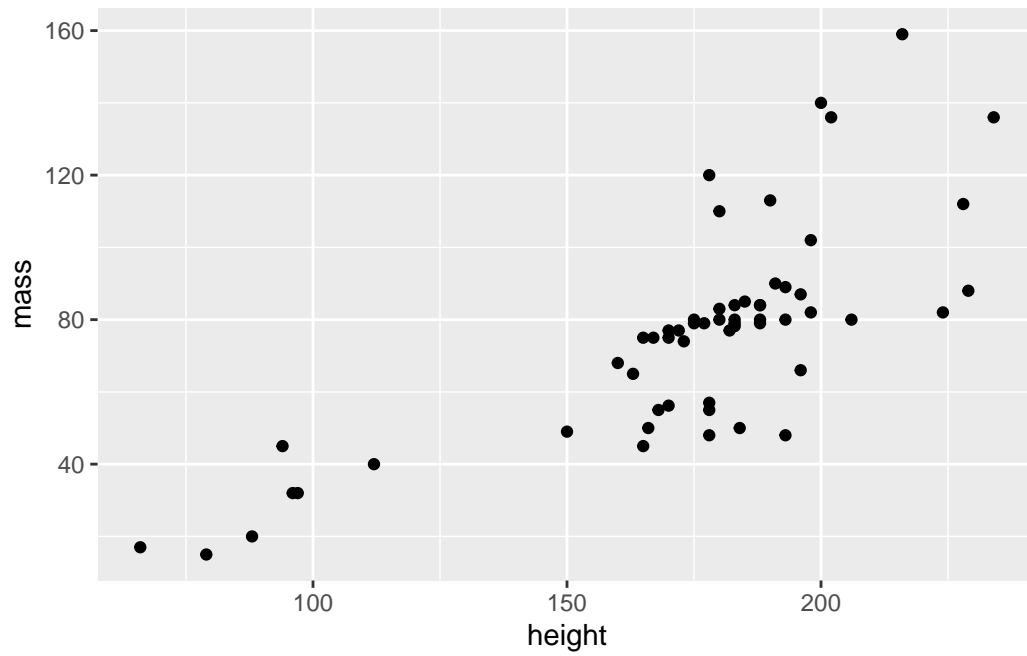use {tidyr} for pivoting date

- `pivot_longer()`
- `pivot_wider()`

3.1 More information

- QuickStart with R

4 Vizualization

library(ggplot2)

```
starwars |>
  filter(mass < 500) |>
  drop_na(mass, height) |>
  ggplot(aes(height, mass)) +
  geom_point()
```

5 Managing a bibliography

1. Download Zotero

   - install *zotero connector* in your browser extensions

2. Export as BiBTex file: .bib
3. Store .bib file in your Quarto Book project directory.

5.0.1 DOI reference

Add reference with @ symbol and a *DOI*. For example '@10.1037/amp0000151'

5.0.2 from my_library.bib

Or, type @ and begin searching you local .bib files.

For example: George Saunders has a lot to say about conversations in graveyards. "Lincoln in the Bardo" (n.d.)

5.0.3 Compiled References

All references will be summarized in the References section of the book.

6 Summary

In summary, this book has no content whatsoever.

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[1] 2

What would Colson Whithead say about this? Whitehead (1999)

References

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

"Lincoln in the Bardo." n.d. https://www.goodreads.com/book/show/29906980-lincoln-in-the-bardo.

Whitehead, Colson. 1999. *The Intuitionist.* 1st Anchor Books ed. New York : Anchor Books, 1999. https://find.library.duke.edu/catalog/DUKE002589592.