

Quarto Books 101

Jane Doe

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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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```

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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 tallies and frequencies

use `{tidyr}` for pivoting data

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

3.1 More information

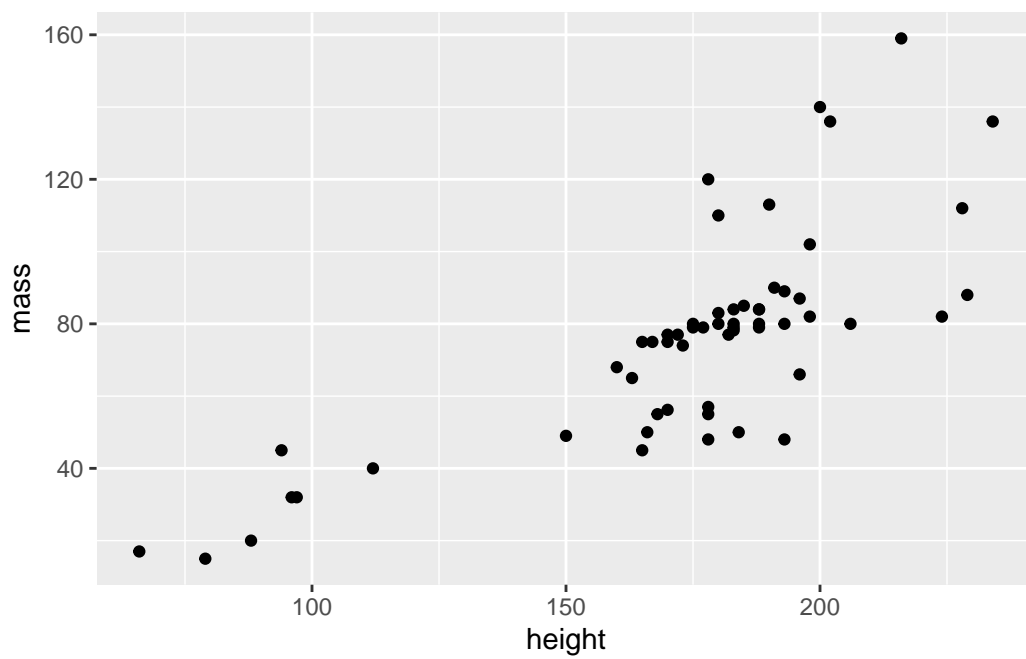
- <https://Rfun.library.duke.edu>
- QuickStart

4 Vizualization

```
library(ggplot2)
```

```
https://ggplot2.tidyverse.org
```

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



5 Managing a bibliography

1. Download Zotero from [zotero.org](https://www.zotero.org)
 - install zotero connector in your browser
2. Export as BiBTeX file: .bib
3. Store .bib file in your Quarto Book project directory.

5.0.1 DOI reference

Jovic, Brkic, and Bogunovic (2014)

5.0.2 from my_library.bib

George Saunders has a lot to say about conversations in graveyards. “Lincoln in the Bardo” (n.d.)

6 Summary

In summary, this book has no content whatsoever.

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

References

- Jovic, A., K. Brkic, and N. Bogunovic. 2014. “An Overview of Free Software Tools for General Data Mining.” *2014 37th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO)*, May. <https://doi.org/10.1109/mipro.2014.6859735>.
- 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>.