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](https://quarto.org/docs/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

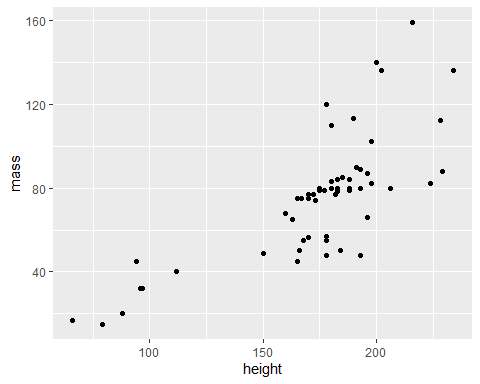
* https://Rfun.library.duke.edu
* QuickStart

# 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
   * 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>.