eRrata

Special topics in R

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Preface

This book is collection of special topics in the R programming language. It's organized more like a journal than a textbook, and each topic is centered around a situation or problem I've encountered while developing R packages, data visualizations, functions, or shiny applications.

This book was written in Quarto (learn more about Quarto books).

1 Object-oriented programming

Introduction

> *This is a book created from markdown and executable code. See Knuth (1984) for additional discussion of literate programming.*

I've left the boilerplate text above because 1) everyone should know about Donald Knuth and his contributions to computational notebooks, and 2) I wanted to keep the `references.qmd` and `references.bib` working when I built the book.

Publishing this book (meta)

I'm going to include the steps for publishing this book *inside* the book so I can come back later and know what I've done (readers might also find this information useful).

This quarto book project has the following contents:

```
.
+-- _book
+-- _quarto.yml
+-- cover.png
+-- eRrata.Rproj
+-- fun-arguments.qmd
+-- fun-environments.qmd
+-- fun-names.qmd
+-- fun-structure.qmd
+-- index.html
+-- index.qmd
+-- intro.html
+-- intro.qmd
+-- intro.rmarkdown
+-- intro_files
|   \-- mediabag
+-- oop-basics.qmd
+-- oop-in-r.qmd
+-- preface.html
+-- preface.qmd
```

```
+-- references.bib
+-- references.qmd
+-- renv
|   +-- activate.R
|   +-- library
|   |   \-- R-4.2
|   \-- settings.json
+-- renv.lock
\-- site_libs
    +-- bootstrap
    |   +-- bootstrap-icons.css
    |   +-- bootstrap-icons.woff
    |   +-- bootstrap.min.css
    |   \-- bootstrap.min.js
    +-- clipboard
    |   \-- clipboard.min.js
    +-- quarto-html
    |   +-- anchor.min.js
    |   +-- popper.min.js
    |   +-- quarto-syntax-highlighting.css
    |   +-- quarto.js
    |   +-- tippy.css
    |   \-- tippy.umd.min.js
    +-- quarto-nav
    |   +-- headroom.min.js
    |   \-- quarto-nav.js
    \-- quarto-search
        +-- autocomplete.umd.js
        +-- fuse.min.js
        \-- quarto-search.js
```

Part I

Object-oriented programming

Object-oriented programming: basics

Object-oriented programming in R

Part II

Functions

Function names

Function arguments

Function structure

Function environments

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