Biodose Tools

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Contents

1	Prerequisites	5
2	Introduction	7
Ι	Getting Biodose Tools	9
3	Online	11
II	Using Biodose Tools	13
4	User Interface	15
II	I Statistical Methods	17
5	Applications 5.1 Example one 5.2 Example two	19 19
6	Final Words	21
A	Appendix A: Black Magic	23

4 CONTENTS

Prerequisites

This is a sample book written in Markdown. You can use anything that Pandoc's Markdown supports, e.g., a math equation $a^2 + b^2 = c^2$.

The **bookdown** package can be installed from CRAN or Github:

```
install.packages("bookdown")
# or the development version
# devtools::install_github("rstudio/bookdown")
```

Remember each Rmd file contains one and only one chapter, and a chapter is defined by the first-level heading #.

To compile this example to PDF, you need XeLaTeX. You are recommended to install TinyTeX (which includes XeLaTeX): https://yihui.name/tinytex/.

Introduction

You can label chapter and section titles using {#label} after them, e.g., we can reference Chapter 2. If you do not manually label them, there will be automatic labels anyway, e.g., Chapter ??.

Figures and tables with captions will be placed in figure and table environments, respectively.

```
par(mar = c(4, 4, .1, .1))
plot(pressure, type = 'b', pch = 19)
```

Reference a figure by its code chunk label with the fig: prefix, e.g., see Figure 2.1. Similarly, you can reference tables generated from knitr::kable(), e.g., see Table 2.1.

```
knitr::kable(
  head(iris, 20), caption = 'Here is a nice table!',
  booktabs = TRUE
)
```

You can write citations, too. For example, we are using the **bookdown** package (Xie, 2019) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015).

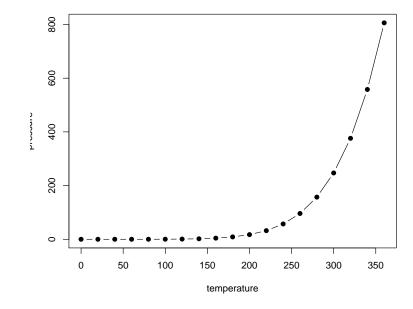


Figure 2.1: Here is a nice figure!

Table 2.1: Here is a nice table! Sepal.Length ${\bf Sepal. Width}$ Petal.Length Petal.Width Species 5.1 3.5 1.4 0.2setosa 4.9 3.0 1.4 0.2setosa 4.7 3.2 1.3 0.2setosa 4.6 3.1 1.5 0.2 setosa 5.00.23.6 1.4 setosa 3.9 0.45.4 1.7 setosa4.6 3.4 0.31.4 setosa5.0 3.41.5 0.2setosa 2.9 0.24.4 1.4 setosa4.93.1 0.11.5 setosa 5.43.7 1.5 0.2setosa 0.24.8 3.4 1.6 setosa 4.83.0 1.4 0.1setosa4.3 3.0 1.1 0.1setosa1.2 0.25.84.0setosa5.7 4.4 0.41.5 setosa 5.43.9 1.3 0.4setosa 5.1 3.51.4 0.3setosa 5.73.8 1.7 0.3setosa 5.1 3.8 1.5 0.3 setosa

Part I Getting Biodose Tools

Online

Here is a review of existing methods.

Part II Using Biodose Tools

User Interface

We describe our methods in this chapter.

Part III Statistical Methods

Applications

Some significant applications are demonstrated in this chapter.

- 5.1 Example one
- 5.2 Example two

Final Words

We have finished a nice book.

Appendix A

Appendix A: Black Magic

Bibliography

Xie, Y. (2015). Dynamic Documents with R and knitr. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.

Xie, Y. (2019). bookdown: Authoring Books and Technical Documents with R Markdown. R package version 0.11.