

# R Code Book

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# Contents

<b>1</b>	<b>Prerequisites</b>	<b>5</b>
<b>2</b>	<b>Libraries/Packages</b>	<b>7</b>
<b>3</b>	<b>Literature</b>	<b>9</b>
<b>4</b>	<b>Methods</b>	<b>11</b>
<b>5</b>	<b>Applications</b>	<b>13</b>
5.1	Example one . . . . .	13
5.2	Example two . . . . .	13
<b>6</b>	<b>Final Words</b>	<b>15</b>



# Chapter 1

## 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.org/tinytex/>.



## Chapter 2

# Libraries/Packages

The list below are libraries/packages I've found to be useful. A brief description is included for most.

- tidyverse:
- ggplot2:
- stringr:
- processx:
- bookdown:
- orca:
- glue:





## Chapter 3

# Literature

Here is a review of existing methods.



## Chapter 4

# Methods

We describe our methods in this chapter.



## Chapter 5

# Applications

Some *significant* applications are demonstrated in this chapter.

### 5.1 Example one

### 5.2 Example two



## Chapter 6

# Final Words

We have finished a nice book.