A Minimal Book Example

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Contents

	5.2 Example two	13	
5	Applications 5.1 Example one		
4	Methods	11	
3	Literature	9	
2	Set up a project	7	
1	Prerequisites	5	

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.org/tinytex/.

Set up a project

First, choose New Project and New Directiony.

Second, choose *Book Project using bookdown* and pick a name as well as the directory. RStudio will automatically set up the Rproject as well as the folder skeleton.

Third, use the package usethis and tie the project with Git. It will re-open the existing project with ready Git integration

```
library(usethis)
use_git()
```

Fourth, use the package usethis again and create a GitHub repo if the project name is available on the owner's repos. When facing git protocol, choose https.

```
> library(usethis)
> use_github()

Setting active project to '/Users/sushicat/Dropbox/R_Me/Bradford'
   Checking that current branch is 'master'
Which git protocol to use? (enter 0 to exit)

1: ssh <-- presumes that you have set up ssh keys
2: https <-- choose this if you don't have ssh keys (or don't know if you do)

Selection: 2

Tip: To suppress this menu in future, put
   `options(usethis.protocol = "https")`
   in your script or in a user- or project-level startup file, '.Rprofile'.
   Call `usethis::edit_r_profile()` to open it for editing.
   Check title and description</pre>
```

```
Name: Bradford
Description:
Are title and description ok?

1: Not now
2: Nope
3: I agree

Selection: 3
Creating GitHub repository
Setting remote 'origin' to 'https://github.com/dataning/Bradford.git'
Pushing 'master' branch to GitHub and setting remote tracking branch
Opening URL 'https://github.com/dataning/Bradford'
```

Literature

Here is a review of existing methods.

Methods

We describe our methods in this chapter.

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.