

# R bookdownplus

Peng Zhao

**Abstract.** Everyone knows that `bookdown` is an excellent package for authoring books on programming languages. But it is only one side of the coin. It can do more than expected. Therefore I am developing `bookdownplus`. `bookdownplus` is an extension of `bookdown`. It helps you write academic journal articles, guitar books, chemical equations, mails, calendars, and diaries.

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## 1 Introduction

The R package `bookdownplus` (Zhao, 2017a) is an extension of `bookdown` (Xie, 2016). It is a collection of multiple templates on the basis of LaTeX, which are tailored so that I can work happily under the umbrella of `bookdown`. `bookdownplus` helps you write academic journal articles, guitar books, chemical equations, mails, calendars, and diaries.

## 2 Features

`bookdownplus` extends the features of `bookdown`, and simplifies the procedure. Users only have to choose a template, clarify the book title and author name, and then focus on writing the text. No need to struggle in YAML and LaTeX.

With `bookdownplus` users can

- record guitar chords,
- write a mail in an elegant layout,
- write a laboratory journal, or a personal diary,
- draw a monthly or weekly or conference calendar,
- and, of course, write academic articles in your favourite way,

- with chemical molecular formulae and equations,
- even in Chinese,
- and more wonders will come soon.

Full documentation can be found in the book `R bookdownplus Textbook`. The webpage looks so-so, while the pdf file might give you a little surprise.

## 3 Quick start

Although this section might not be the latest version, the general idea won't change. Please see `R bookdownplus Textbook` to keep up with the update.

### 3.1 Preparation

Before starting, you have to install R, RStudio, `bookdown` package, and other software and packages (i.e. Pandoc, LaTeX, `rmarkdown`, `rticle`, `knitr`, etc.) which `bookdown` depends on. See the official manual of `bookdown` for details. Additionally, if you want to produce a poster, `python` must be installed before using, and the path of `python` might have to be added to the environmental variables for Windows users.

### 3.2 Installation

```
install.packages("bookdownplus")  
# or  
devtools::  
  install_github("pzhaonet/bookdownplus")
```

### 3.3 Generate demo files

Run the following codes, and you will get some files (e.g. `index.Rmd`, `body.Rmd`, `bookdownplus.Rproj`) and folders in your working directory.