

Rmarkdown / bookdown / blogdown /
Hugodown

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Chapter 1

Using R Markdown to build github.io static web pages

merely-useful.github.io github github.io, , github,
github.io, , R Markdown . deployment, , efforts,
google , .

try-and-error , , §6

- Merely-useful
 - github.com/merely-useful
 - merely-useful.github.io hyperlink (CSS , Hugo
Lithium theme)
- RMarkdown : bookdown blogdown, blogdown , Hugo ,
bookdown , Hugo
 - bookdown: Authoring Books and Technical Documents with R
Markdown
 - blogdown: Creating Websites with R Markdown
- - , bookdown .md , deploy github.io , 23 R
 - Getting any website up and running with all the moving
parts (RStudio, GitHub, Hugo, Netlify) (, blogdown ,
blog , bookdown , bookdown,)
 - How to publish bookdown projects with GitHub Actions on GitHub
Pages

- Netlify deploy A Blogdown New Post Workflow with Github and Netlify
- Travis deploy github Blogdown - Travis + GitHub

Chapter 2

R RStudio github

R RStudio

,

github

github.com repo, repo marconijiang.github.io marconi1964.github.io
, github , repo marconijiang.github.io, https://marconijiang.
github.io - (github , username.github.io repo, github
https://username.github.io/ repo)

Chapter 3

RMarkdown github.io

Alison Hill blogdown 2021 *1, ()

3.1 R Markdown *2

```
##   ,   ,
##   Install packages from CRAN

> if (!requireNamespace("remotes")) install.packages("remotes") ## install remotes

## install blogdown from CRAN
> install.packages("blogdown")
## Or, install blogdown from GitHub
> remotes::install_github("rstudio/blogdown")

## blogdown   Hugo (https://gohugo.io)   ,   blogdown   hugo
> blogdown::install_hugo()

##   ,   server   preview,
> blogdown::serve_site()
```

3.2 Create project (Ref 1. Step 2 Create project)

- RStudio File > New Project > Version Control > Git

- github url, <https://github.com/MarconiJiang/marconijiang.github.io.git>
 - Create Project
- , RStudio , marconijiang.github.io , file local repo

3.3 Create site (Ref 1. Step 3 Create site)

3.3.1 blogdown

```
## RStudio console ,
> if (!requireNamespace("remotes")) install.packages("remotes")
> remotes::install_github("rstudio/blogdown")

## ,
## * DONE (blogdown)
```

3.3.2 RStudio / blogdown

```
> library(blogdown)
> blogdown::new_site(theme = 'yihui/hugo-lithium')

(theme), , error message github lithium,
google "github lithium theme", 3 github lithium (theme), ,
README.md blogdown ,

• Yihui Hugo Lithium ## , jrutheiser fork
• Jrutheiser Hugo Lithium ##
• janikvonrotz Hugo Lithium
• Hugo Lithium

## ,
> new_site(theme = "wowchemy/starter-academic") ##

https://bookdown.org/yihui/blogdown/other-themes.html
> blogdown::new_site(theme = "lxndrblz/anatole")

> new_site(theme = "Lithium") ##
> new_site(theme = "Hugo/Lithium") ##

'y' , RStudio , ( ) 1. RStudio Viewer ( Files )
2. Viewer , icon, Show in new window, , browser 3. browser
, http://localhost:4321 ( , RStudio , )

Creating your new site
```

```
| Installing the theme yihui/hugo-lithium from github.com
trying URL 'https://github.com/yihui/hugo-lithium/archive/master.tar.gz'
Content type 'application/x-gzip' length unknown
downloaded 109 KB
```

```
| Adding the sample post to content/post/2020-12-01-r-rmarkdown/index.Rmd
| Converting all metadata to the YAML format
| Adding netlify.toml in case you want to deploy the site to Netlify
| Adding .Rprofile to set options() for blogdown
```

The new site is ready

To start a local preview: use `blogdown::serve_site()`, or the RStudio add-in "Serve Site"

To stop a local preview: use `blogdown::stop_server()`, or restart your R session

```
> Want to serve and preview the site now? (y/n) y
```

Launching the server via the command:

```
C:/Users/mjiang/AppData/Roaming/Hugo/0.81.0/hugo.exe server --bind 127.0.0.1 -p 4321 --themesDir t
```

Serving the directory . at http://localhost:4321

Launched the hugo server in the background (process ID: 32508). To stop it, call `blogdown::stop_server`

```
Rendering content/post/2020-12-01-r-rmarkdown/index.Rmd... Done.
```

```
,      ,      deploy github.io
```


Chapter 4

RMarkdown blogdown deploy Netlify

Ref. 1 Using github

4.1 .gitignore : .gitignore ,

```
file.edit(".gitignore")
RStudio cursor ,
##
.Rproj.user
.Rhistory
.RData
.Ruserdata
##
.DS_Store
Thumbs.db
```

4.2 blogdown check_gitignore()

```
commit , blogdown
> blogdown::check_gitignore()
[TODO] ,
Checking .gitignore
| Checking for items to remove...
```

```

Nothing to see here - found no items to remove.
| Checking for items to change...
Nothing to see here - found no items to change.
| Checking for items you can safely ignore...
Found! You have safely ignored: .DS_Store, Thumbs.db
| Checking for items to ignore if you build the site on Netlify...
[TODO] When Netlify builds your site, you can safely add to .gitignore: /public/, /resources
| Checking for files required by blogdown but not committed...
[TODO] Found 1 file that should be committed in GIT:

layouts/shortcodes/blogdown/postref.html
Check complete: .gitignore

```

4.3 blogdown check_content()

```

> blogdown::check_content()

Checking content files
| Checking for validity of YAML metadata in posts...
All YAML metadata appears to be syntactically valid.
| Checking for previewed content that will not be published...
Found 0 files with future publish dates.
Found 0 files marked as drafts.
| Checking your R Markdown content...
All R Markdown files have been knitted.
All R Markdown output files are up to date with their source files.
| Checking for .html/.md files to clean up...
Found 0 duplicate .html output files.
Found 0 incompatible .html files to clean up.
| Checking for the unnecessary 'content/' directory in theme...
Great! Your theme does not contain the content/ directory.
Check complete: Content

```

4.4 Netlify Publish site

Ref 1. Publish site

, Netlify , github . 1. Netlify 2. github sign up
 () 3. log in , New site from Git > Continuous Deployment: GitHub. 4.
 (optional) (Netlify) menu Site Setting , Change site name ,
 marconijiang, https://marconijiang.netlify.app. , Netlify ,

xxxx-yyyyy-zzzz.netlify.app 5. browser , marconijiang.netlify.app,
 github (github , ,)

4.5 git github

```
RStudio terminal (console ), git github
## , git clone , xxxx.github.io
## marconijiang.github.io
$ git add *
$ git commit -m "init commit"
$ git push origin main # , github "master" branch main
## github user id password
, browser https://marconijiang.netlify.app ,
```


Chapter 5

bookdown

Ref 7. rib-hugodown github

5.1 bookdown

```
> install.packages("devtools")
## devtools::install_github('rstudio/bookdown')
> devtools::install_github("r-lib/hugodown")

##           ,           0.66.0
> hugodown::hugo_install('0.66.0')
```

5.2 RStudio

RStudio -> New Project -> New Directory -> New Project -> “Directory name” -> “Create Project”

5.3 hugo academic

```
hugo academic
> hugodown::create_site_academic()
hugodown server
> hugodown::hugo_start()
Starting server on port 1313
```


Chapter 6

Summary - bookdown, deploy github.io

6.1

```
blogdown , bookdown  
> if (!requireNamespace("remotes")) install.packages("remotes")  
> remotes::install_github("rstudio/blogdown")
```

6.2 bookdown

RStudio -> File -> New project -> New directory -> “Book project using bookdown” -> Directory marconijiang.github.io bookdown marconijiang.github.io .

6.3 Deploy github.io

RStudio , Environment Build, Build Book bookdown::gitbook, RStudio html, __book , https://marconijiang.github.io/__book/index.html 404 not found

6.4 404 not found , .nojekyll

github pages jekyll , , (underline) , github , Bypassing Jekyll on GitHub Pages, bookdown html __book, , :

1. `_bookdown.yml` , §7.3 `_bookdown.yml` ;
 2. `.nojekyll` , :
 - `index.html` `.nojekyll` , , `linux` `touch`
- `$ touch .nojekyll`
- , `.nojekyll` `_book` , `github` 404 not found due to missing
`.nojekyll` https://marconijiang.github.io/_book/index.html

Chapter 7

Bookdown

§6 bookdown ,

7.1 bookdown

1. copy / (github.com/marconi1964/About_bookdown)
2. RStudio
3. RStudio file,
4. marconi1964.github.Rproj, RStudio project,

7.2

- post gihhub.io, index.html .nkjekyll , , linux
touch

```
$ touch .nojekyll
```

7.3

```
github
github.com/marconi1964
|
|-- About_bookdown      # Rmarkdown  github
  |-- _bookdown.yml     #      , html  marconi1964.github.io      ,      ,  about_bookdown,  bool
    output_dir: "../marconi1964.github.io/about_bookdown"
  |-- index.Rmd         # bookdown
```

```

|-- 01-intro.Rmd      #      : index.Rmd, 01-intro.Rmd, 02-xxx.Rmd
|-- 02-xxx.Rmd       #      /

|-- JetsonNano_book  #      Rmarkdown      github
|-- _bookdown.yml    #      , html      marconi1964.github.io      ,      JetsonNano
      output_dir: "../marconi1964.github.io/JetsonNano"
|-- ...

|-- marconi1964.github.io # html
|-- index.html          #      ,      hyperlink
|-- about_bookdown      #      bookdown      ,      https://marconi1964.github.io/about_bookdown
      |-- .nojekyll      #
      |-- index.html
      |-- ...
|-- JetsonNano          #      bookdown      ,      https://marconi1964.github.io/JetsonNano/index.html
      |-- .nojekyll      #
      |-- index.html
      |-- ...
|--

```

7.4 Rmd

md , Rmd , , python md

7.5

7.6

1. <https://alison.rbind.io/post/new-year-new-blogdown/>
2. <https://bookdown.org/yihui/blogdown/installation.html>

Lithium

3. Yihui Hugo Lithium
4. Jrutheiser Hugo Lithium ## Lithium
5. janikvonrotz Hugo Lithium
6. Hugo Lithium

Hugodown

7. [r-lib/hugodown](https://github.com/r-lib/hugodown) [github](https://github.com)

Bookdown

8. R - [bookdown](https://bookdown.org/yihui/bookdown/) `.md` (`.rmd` `.md`) , [github.io](https://github.com) , 23