

Problems and Solutions to Compile a PDF Version of Advanced R

Boyi Zhang

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1 At the begining

Clone the program (<https://github.com/hadley/adv-r>).

Updating all the package and Software, like Rstudio, Texlive, that I can do.

We generate the gitbook (html version) first, then pdf book.

2 gitbook

For html book, compiling with the code

```
bookdown::render_book("index.Rmd", "bookdown::gitbook")
```

2.1 Reading problems with “contribute.csv”

There is no specific error reason about it, but some character cannot be distinguished correct when I saw the error message, such as Chinese Character, French Character, etc.

The reason is just because the encoding problem. Add a encode parameter in the line 224 of **Introduction.Rmd**, like this:

```
contributors <- read.csv("contributors.csv", stringsAsFactors = FALSE, encoding = "UTF-8")
```

2.2 For missing packages.

For majority of the packages, you can use

```
install.package()
```

to install package.

2.3 For missing Fonts.

Font is quiet different, there are two fonts, **Inconsolata**, **AndaleMono**, I missed.

Downloads the Opentype file(.otf), put it into latex folder (C:/texlive/2020/texmf-dist/fonts/opentype/public)

Downloads the Truetype file(.ttf), put it into latex folder (C:/texlive/2020/texmf-dist/fonts/truetype/public)

2.4 Cannot install emo and sloop package from CRAN.

It is because the package are special sources, we need to install the Rtools40 to install it. Code like this

```
devtools::install_github("hadley/emo")
```

2.5 in system(cmd) “make” not found

For this error message, just because install Rtools40 via wizard is not enough, we still should type the code

```
writeLines('PATH="${RTOOLS40_HOME}\\usr\\bin;${PATH}"', con = "~/.Renviron")
```

2.6 No such file or directory

Redirect the folder by Using the following code. It's depends on message content, for me

```
sh: c:/Rtools/mingw_64/bin/g++: No such file or directory
```

In this case, I use

```
Sys.setenv(BINPREF = "C:/Rtools/mingw$(WIN)/bin/")
Sys.setenv(PATH = paste("C:/Rtools/bin", Sys.getenv("PATH"), sep=";"))
```

to redirect.

3 pdf_book

For pdf book, compiling with the code

```
bookdown::render_book("index.Rmd", "bookdown::pdf_book")
```

3.1 LaTeX Error: Environment sidebar undefined.

Upgrade the rmarkdown through github, cannot directly upgrade via CRAN.

```
devtools::install_github('rstudio/rmarkdown')
```

and upgrade ALL (use 1st option), then all set.

3.2 Failed to install ‘rmarkdown’ from GitHub:cannot remove prior installation of package ‘digest’

This error occurred when I upgrade the rmarkdown. Use command

```
.libPaths()
```

to search the folder path, find ‘digest’ folder and delete it manipulatively.

4 Overall

As for pdf book generated, there are several warning messages about multiply defined. It may not affect the final book I generated. So, just omit it.

The book is compiled in the "adv-r/_book" folder.