

Problems and Solutions to Compile a PDF Version of Advanced R

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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, Textlive, that I can do.

2 gitbook

For html book, compiling with the code `{bookdown::render_book("index.Rmd", "bookdown::gitbook")}`.

2.1 Reading problems with “contributors.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.

We can leave it later on, just comment it and auto-solved within the Font problem at the same time.

UPDATE: The reason is just because the encoding problem. Make 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

```
*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.

LaTeX failed to compile `__main.tex`. See <https://yihui.org/tinytex/r/#debugging> for debugging tips. See `__main.log` for more info.

For this error is just because of some deficiency of my textlive software. For this situation, you can find a temp file, which names `"__main.tex"`.

Compile it with your textlive, compiled with *XeLaTeX*, and edit some code, it could get the pdf-version of this book. Actually, don't really know about this method will be worked, just for wishes. Maybe textlive is not enough to have full functional.

But, anyway, we already success to got the *gitbook*, which is good enough to use it by your Browser.

4 Overall

Because I forgot I could catch the screen make the error messages more convinible, those things was made by hand. Still has reference value on it.

For the result, we can get a good version of Html book, but a half-completed pdf book of it.

The book is compiled in the *gitbook* folder.