

# Problems and Solutions to Compile a PDF Version of Advanced R

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In order to compile Advanced R into a PDF, I installed the MiKTeX and Rmarkdown packages before compiling (Note: added a path in the system settings).

## Download the Source:

<https://github.com/hadley/adv-r/archive/master.zip>

## Install R Package dependencies

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

## Compile the book

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

During the building process, I've met several problems, the followings are the errors I've met and how I solved them.

## rlang0.4.0

```
knitr::include_graphics("error/1.PNG")
```

```
> devtools::install_github("hadley/emo")
Error: loadNamespace()里算'pkgload'时.onLoad失败了，详细内容：
调用: loadNamespace(i, c(lib.loc, .libPaths()), versionCheck = vI[[i]])
错误: 载入了名字空间'rlang' 0.4.0，但需要的是>= 0.4.1
>
```

To solve it, I removed `rlang` and then reinstalled it.

```
remove.packages("rlang")
install.packages("munsell")
install.packages("rlang")
```

## Failed to install “emo” from Github:

```
knitr::include_graphics("error/2.PNG")
```

```
Error: Failed to install 'emo' from Github:
  schannel: failed to receive handshake, SSL/TLS connection failed
```

To solve this problem, I executed the following command in Git.

```
$ git config --global http.sslBackend "openssl"
$ git config --global http.sslCAInfo E:/R/R-3.6.1/library/openssl/cacert.pem
```

## Quitting from lines 223-235 (Introducton.Rmd)

```
knitr::include_graphics("error/3.PNG")
```

```
Quitting from lines 223-235 (Introduction.Rmd)
Error in cat(paste0(contributors$desc, collapse = ", ")) :
  '86>,<4e>A (@kfengl23), Karl Forner (@kforner), Kirill Sevastyanenk
o (@kirillseva), Brian Knaus (@knausb), Kirill M眉ller (@krmlr), Krit
i Sen Sharma (@ksens), Kai Tang (鎮惜倅倅<89>,NA (@ktang), Kevin Wright
(@kwstat), suo.lawrence.liu@gmail.com (@Lawrence-Liu), @ldfmrails, K
evin Kainan Li (@legendre6891), Rachel Severson (@leighseverson), Laur
ent Gatto (@lgatto), C. Jason Liang (@liangcj), Steve Lianoglou (@lia
nos), Yongfu Liao (@liao961120), Likan (@likanzhan), @lindbrook, Ling
bing Feng (@Lingbing), Marcel Ramos (@Link-NY), Zhongpeng Lin (@linzh
p), Lionel Henry (@lione1-), Llu柳s (@llrs), myq (@lrcg), Luke W Johns
ton (@lwjohnst86), Kevin Lynagh (@lynaghk), @MajoroMask, Malcolm Barr
ett (@malcolmbarrett), @mannyishere, @mascaretti, Matt (@matthaggot
t), Matthew Grogan (@mattgrogan), @matthewhillary, Matthieu Gomez (@m
athieugomez), Matt Malin (@mattmalin), Mauro Lepore (@maurolepore), M
ax Ghenis (@MaxGhenis), Maximilian Held (@maxheld83), M
Calls: local ... withCallingHandlers -> withVisible -> eval -> eval -> c
at
停止执行
Error in Rscript_render(f, render_args, render_meta, add1, add2) :
  Failed to compile Introduction.Rmd
> |
```

Adding encoding = "UTF-8" in line 224 can fix it. The line 224 is displayed as

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

## Missing Packages

Most of the warnings are packages missing. Use `install.packages()` to solve this kind of problem. The packages I installed during the process are glue, lubridate, purr, stringing, Rcpp, tinytex, dbplyr, etc.

## Fonts cannot be found

```
knitr::include_graphics("error/4.PNG")
```

```

! Package fontspec Error: The font "Inconsolata" cannot be found.
! Sorry, but miktex-makemf did not succeed.
! The log file hopefully contains the information to get MiKTeX going again:
!   C:\Users\dell\AppData\Local\MiKTeX\2.9\miktex\log\miktex-makemf.log
! hbf2gf (CJK ver. 4.8.4)
! Couldn't open `Inconsola.cfg'
! Sorry, but miktex-maketfm did not succeed.
! The log file hopefully contains the information to get MiKTeX going again:
!   C:\Users\dell\AppData\Local\MiKTeX\2.9\miktex\log\miktex-maketfm.log

***: LaTeX failed to compile _main.tex. See https://yihui.org/tinytex/r/#debugging for
debugging tips. See _main.log for more info.
***
exited with status 1.

```

I downloaded the font `Inconsolata` and `Andale Mono` from the internet.

After solving these problems, the book was successfully built.