

# 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 Rtools before compiling.

## Download the Source

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

## Install R Package Dependencies

```
# Check error messages for needed cran packages. Development packages
are
# mentioned below.
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.

### Q1 Failed to install "sloop" from Github:

```
$ git config --global http.sslBackend "openssl"
$ git config --global http.sslCAInfo [path to .pem file]
```

### Q2 Introduction.Rmd

```
Quitting from lines 223-235 (Introduction.Rmd)
Error in cat(paste0(contributors$desc, collapse = ", ")) :
invalid multibyte string at '<86>,<4e>A (@kfeng123), Karl Forner (@kforner),
Kirill Sevastyanenko (@kirillseva), Brian Knaus (@knausb), Kirill M眉ller
(@krlmlr), Kriti Sen Sharma (@ksens), Kai Tang (鎮愜倅鏽<89>,NA (@ktang),
Kevin Wright (@kwstat), suo.lawrence.liu@gmail.com (@Lawrence-Liu),
@ldfmrails, Kevin Kainan Li (@legendre6891), Rachel Severson
(@leighseverson), Laurent Gatto (@lgatto), C. Jason Liang (@liangcj), Steve
Lianoglou (@lianos), Yongfu Liao (@liao961120), Likan (@likanzhan),
@lindbrook, Lingbing Feng (@Lingbing), Marcel Ramos (@LiNk-NY), Zhongpeng
Lin (@linzhp), Lionel Henry (@lionel-), Llu柳s (@llrs), myq (@lrcg), Luke
W Johnston (@lwjohnst86), Kevin Lynagh (@lynaghk), @MajoroMask, Malcolm
```

```
Barrett (@malcolmbarrrett), @mannyishere, @mascaretti, Matt (@mattbaggott),
Matthew Grogan (@mattgrogan), @matthewhillary, Matthieu Gomez
(@matthieugomez), Matt Malin (@mattmalin), Mauro Lepore (@maurolepore), Max
Ghenis (@MaxGhenis), M
Calls: local ... withCallingHandlers -> withVisible -> eval -> eval -> cat
```

Adding encoding = "UTF-8" in line 224 can fix it.

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

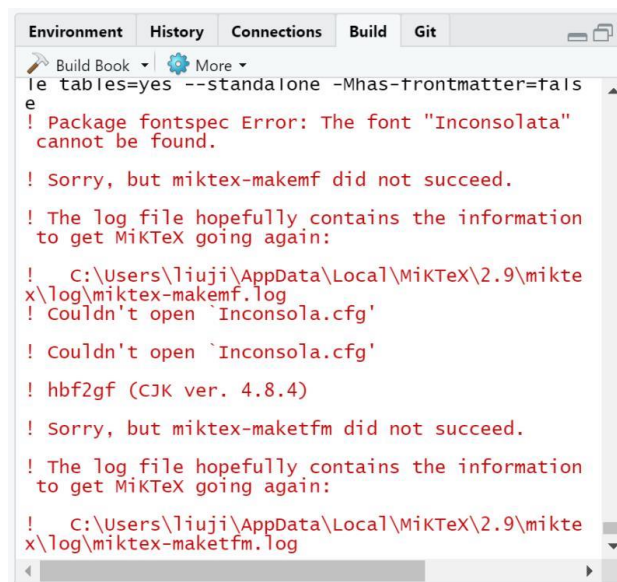
## Q3 lacking packages

Finally, I installed the following packages, named DBI, RSQLite, dbplyr, profvis, bench, ggbeeswarm.

## Q4 RCPP.Rmd

Installed Rstools35

## Q4 Fonts cannot be found



I download the font Inconsolata and Andale Mono from the internet

## Q5 Latex failed to compile \_main.tex

```
"D:/software/R-3.6.3/Rstudio/bin/pandoc/pandoc" +RTS -K512m -RTS _main.utf8.md --to latex --from markdown+autolink_bare_uris+tex_math_slash --output _main.tex --self-contained --table-of-contents --toc-depth 2 --number-sections --highlight-style tango --pdf-engine xelatex --natbib --include-in-header "latex/preamble.tex" --include-before-body "latex/before_body.tex" --include-after-body "latex/after_body.tex" --lua-filter "D:/software/R-3.6.3/library/rmarkdown/rmd/lua/pagebreak.lua" --lua-filter "D:/software/R-3.6.3/library/rmarkdown/lua/latex-div.lua" --wrap preserve --top-level-division=chapter --lua-filter=latex/sidebar.lua --variable tables=yes --standalone --s-frontmatter=false
错误: LaTeX failed to compile _main.tex. See https://yihui.org/tinytex/r/#debugging for debugging tips.
此外: warning message:
In system2(..., stdout = if (use_file_stdout()) f1 else FALSE, stderr = f2) :
  "xelatex" not found
>
```

Firstly,I downloaded and installed Latex

Secondly

