

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

Jinyi Chen

## Download the source file

The source file was downloaded from <https://github.com/hadley/adv-r.git>

## Upgrade RStudio and installed packages to the latest version

There are many packages missing during rendering process, so I intall them all.

```
install.packages("devtools",dependencies = T)
library(usethis)
library(devtools)
install.packages("Rtools",dependencies = T)
library(Rtools)
devtools::install_github("hadley/sloop")
devtools::install_github("hadley/emo")
install.packages("bookdown",dependencies = T)
library(bookdown)
install.packages("dplyr")
library(dplyr)
install.packages("lobstr")
install.packages("ggplot2")
install.packages("DBI")
install.packages("RSQLite")
install.packages("zeallot")
install.packages("dbplyr")
install.packages("profvis")
install.packages("bench")
install.packages("tidyr")
install.packages("ggbeeswarm")
```

## Garbled message from read.csv

When the document contributors.csv was read by function *read.csv*, garbled massged emerged. To solve this problem, I add “encoding = ‘UTF-8’” in the function.

```
library(dplyr)
contributors <- read.csv("contributors.csv", stringsAsFactors = FALSE,encoding = "UTF-8")
contributors <- contributors %>%
  filter(login != "hadley") %>%
  mutate(
    login = paste0("\\\\@", login),
    desc = ifelse(is.na(name), login, paste0(name, " (", login, ")"))
  )

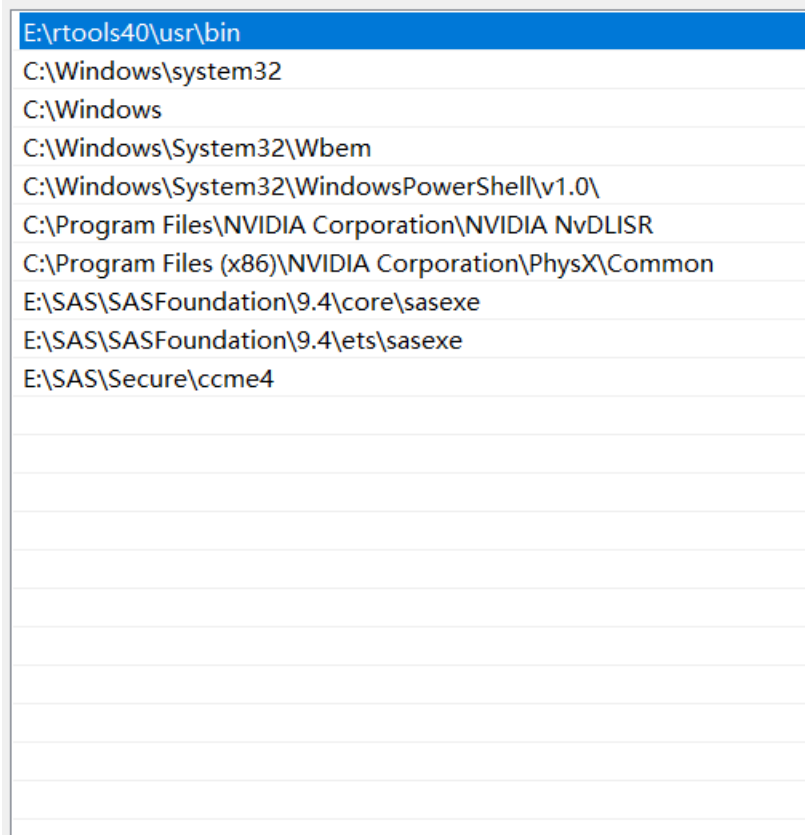
cat("A big thank you to all ", nrow(contributors), " contributors (in alphabetical order by username):"
```

```
cat(paste0(contributors$desc, collapse = ", "))
cat(".\n")
```

## Warning message: In system(cmd) : ‘make’ not found

```
Warning message:
In system(cmd) : 'make' not found
Quitting from lines 77-84 (Rcpp.Rmd)
Error in sourceCpp(code = code, env = env, rebuild = rebuild, cacheDir = cacheDir, :
  Error 1 occurred building shared library.
Calls: local ... withVisible -> eval -> eval -> cppFunction -> sourceCpp
```





To solve this problem, I googled and found that *Rtools* will solve this problem, so I download it from <https://cran.r-project.org/bin/windows/Rtools/> and install it properly. Since we have package *devtools*, we can use `find_rtools` to check if we installed *Rtools* by following steps listed on <https://thecoatlessprofessor.com/programming/cpp/installing-rtools-for-compiled-code-via-rcpp/>.



```
## [1] TRUE
```

## The font “Inconsolata” cannot be found

I download font files from <https://candyfonts.com/font/inconsolata-bold.htm> and install it.

 InconsolataN-Bold.otf	2020/9/12 18:24	OpenTyp...	28 KB
 InconsolataN-Regular.otf	2020/9/12 18:24	OpenTyp...	26 KB
 Inconsolatazi4-Bold.otf	2020/9/12 18:24	OpenTyp...	47 KB
 Inconsolatazi4-Regular.otf	2020/9/12 18:24	OpenTyp...	37 KB

This

problem is unsolved.