Assignment 2 - Compiling Advanced R

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Firtsly, have set the current working directory

```
setwd("D:/Courses/Stat 5361 - Statistical Computing/Assignment 2/adv-r")
```

Upgraded RStudio from older version to 4.0.2 and installed packages to the latest version

```
# install.packages("installr")
# installr::updateR()
R.version

##                 _
## platform        x86_64-w64-mingw32
## arch            x86_64
## os              mingw32
## system          x86_64, mingw32
## status
## major           4
## minor           0.2
## year            2020
## month           06
## day             22
## svn rev         78730
## language        R
## version.string  R version 4.0.2 (2020-06-22)
## nickname        Taking Off Again
```

Steps to build the book using Rstudio

1. Downloaded the sourcefile [*Compile Hadley's Advanced R to a PDF*]

"https://brettklamer.com/diversions/statistical/compile-hadleys-advanced-r-programming-to-a-pdf/"

2. Installed R Package Dependencies:

```
# install.packages('bookdown')
# install.packages("devtools")

# devtools::install_github("hadley/sloop")
# devtools::install_github("hadley/emo")
```
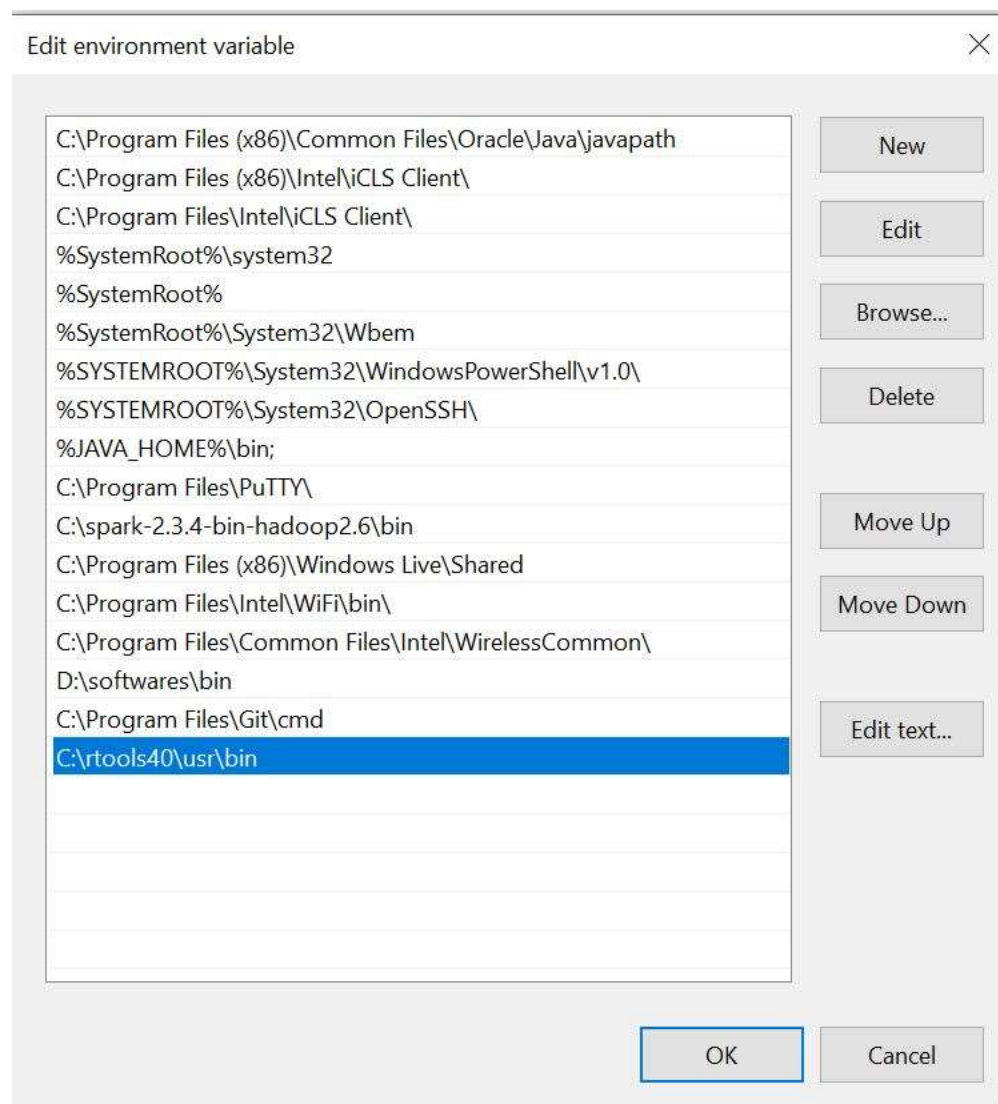
3. Used the below to compile the book:

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

Below are the error messages I received and how I have solved them, during the building process

1. Missing packages: Used 'install.packages()' to install all these mentioned: *lobstr, ggplot2, dplyr, DBI, RSQLite, zeallot, dbplyr, profvis, bench, tidyr, ggbeeswarm*

2. 'make' not found: Installed *Rtools* manually and added the path ('C:40') to Evironment variables

```
knitr::include_graphics("D:/Courses/Stat 5361 - Statistical
Computing/Assignment 2/Make.JPG")
```

```
## Cross checked the path name of 'make' after installation

Sys.which('make')

##                                    make
## "C:\\rtools40\\usr\\bin\\make.exe"
```

3. Font "Inconsolata" and "AndaleMono" not found:

3.1. Installed "Tex Liv" as it's much more stable to "tinytex"

3.2. Downloaded '.ttf' and '.otf' files for "Inconsolata", and '.ttf' file for "AndaleMono"

3.3. Saved Opentype file(.otf) into latex folder: "C:/texlive/2020/texmf-dist/fonts/opentype/public/inconsolata"

True typefile(.ttf) into latex folder: "C:/texlive/2020/texmf-dist/fonts/truetype/public/inconsolata", "C:/texlive/2020/texmf-dist/fonts/truetype/public/andalemono"

Note: .tex file can also be compiled using TeXworks editor of Tex Live

Final '_main.pdf' is generated