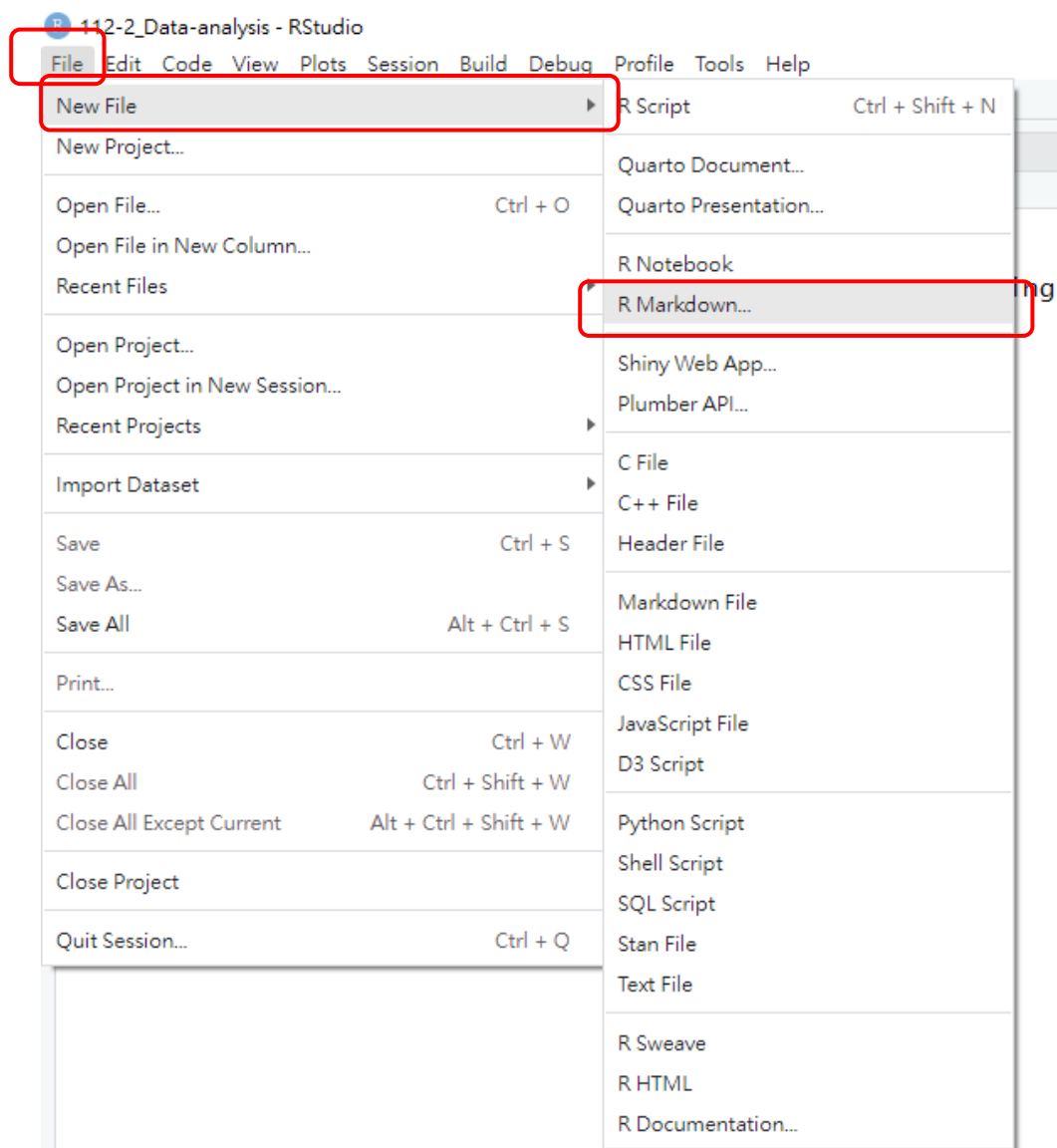


# R markdown

2024-09

新增 R markdown 檔案 (.rmd)  
File -> New File -> R Markdown



## Output Format:

### 1. HTML 網頁: (建議)

可發表在 <https://rpubs.com/>

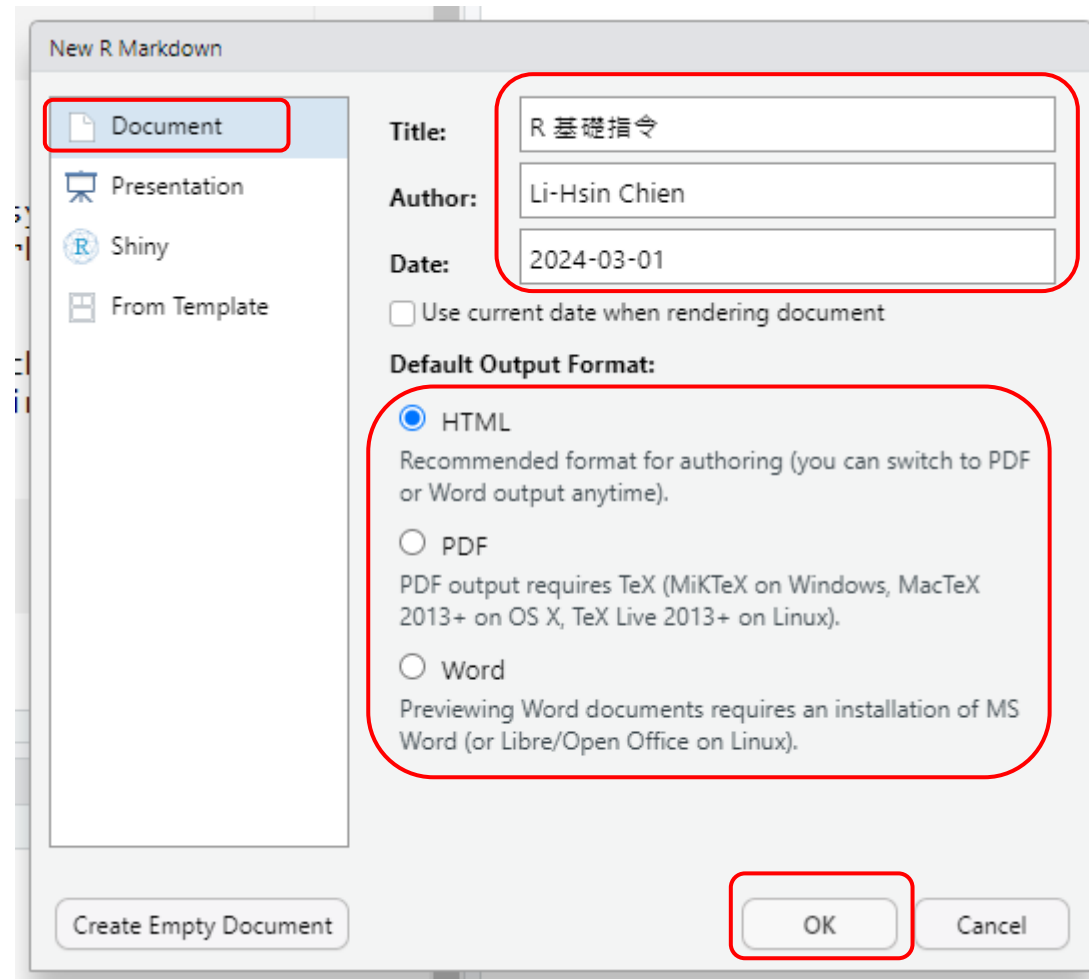
### 2. PDF檔:

電腦需安裝產出pdf檔的 Tex 或相關軟體

### 3. Word檔

電腦需安裝 Word

檔案附檔名 .RMD



文件資訊  
控制輸出格式  
(YAML Frontmatter)

輸入R程式碼的區塊  
(R code chunk)

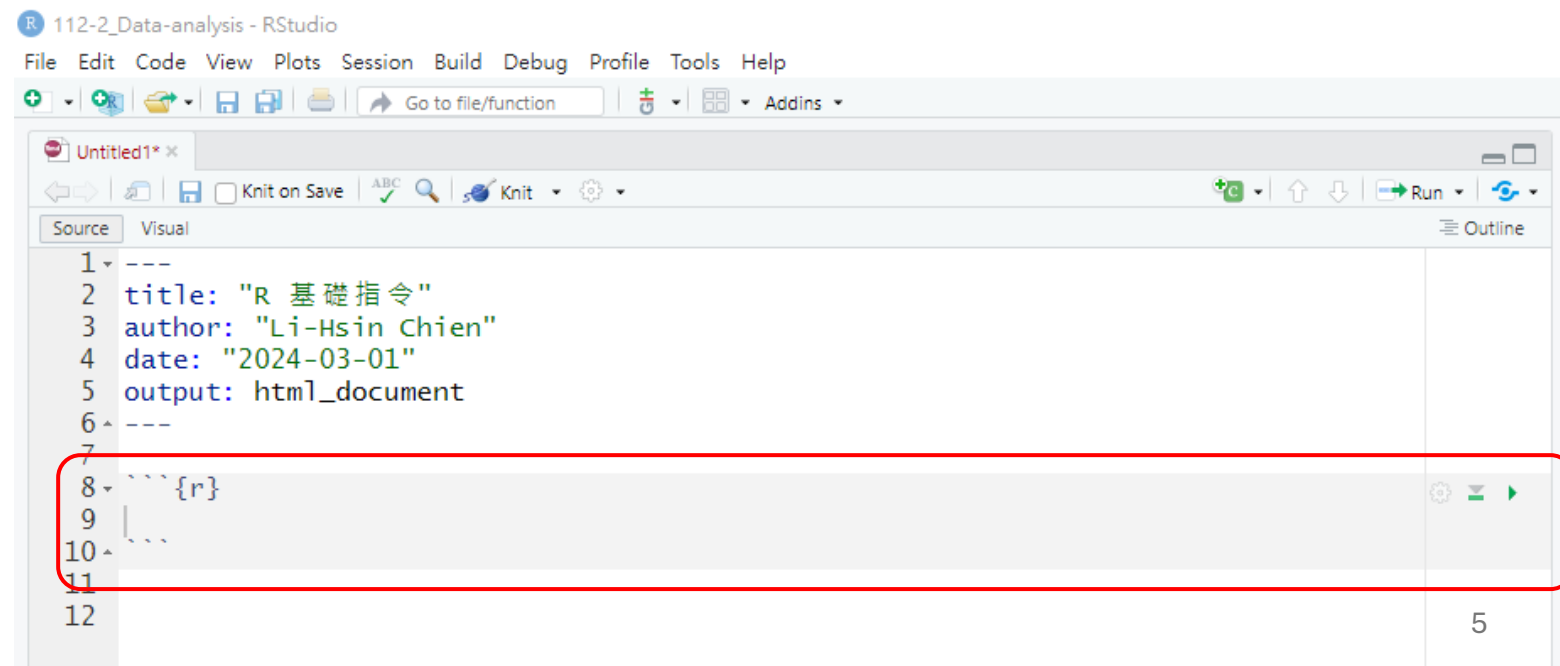
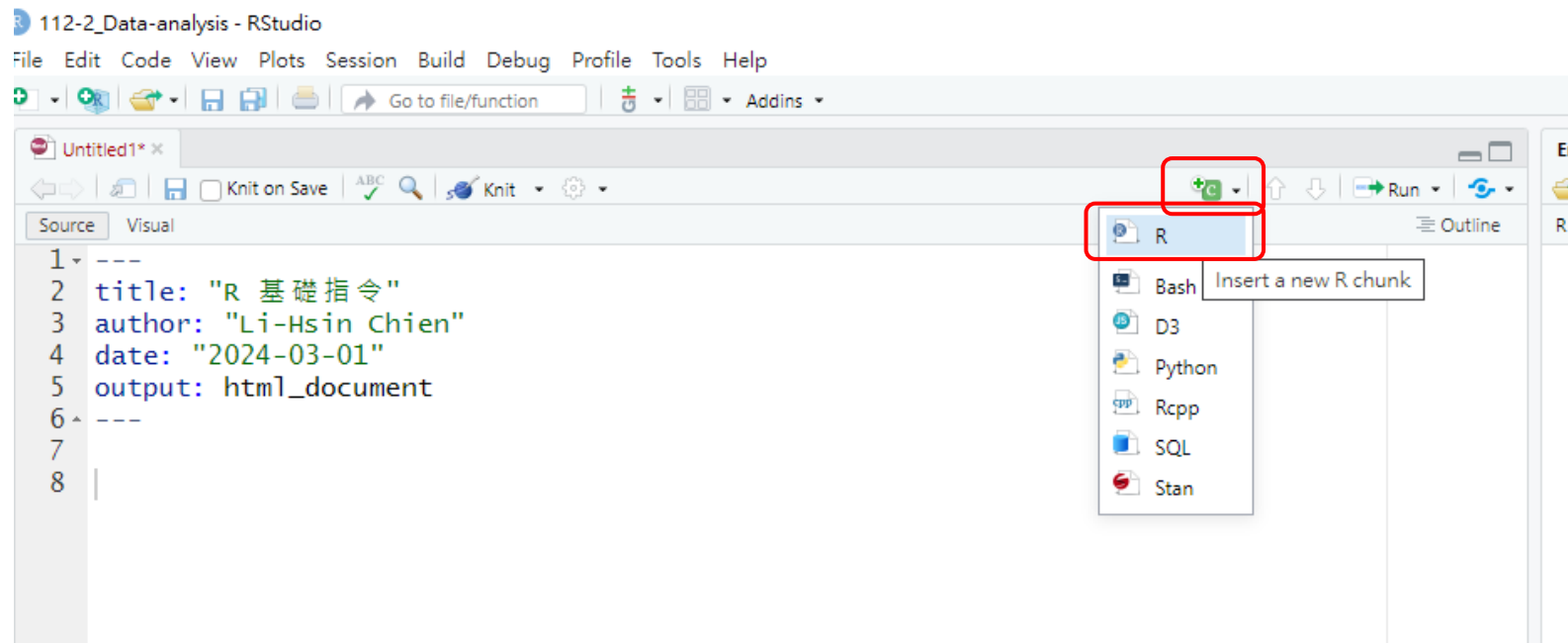
一般文件說明內容  
(Markdown Content)

```
1  
2 title: "R 基礎指令"  
3 author: "Li-Hsin Chien"  
4 date: "2024-03-01"  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10 ```  
11  
12 ## R Markdown  
13  
14 This is an R Markdown document. Markdown is a simple formatting syntax for authoring  
15 HTML, PDF, and MS Word documents. For more details on using R Markdown see  
16 <http://rmarkdown.rstudio.com>.  
17  
18 When you click the **Knit** button a document will be generated that includes both  
19 content as well as the output of any embedded R code chunks within the document. You  
20 can embed an R code chunk like this:  
21  
22 ```{r cars}  
23 summary(cars)  
24 ```  
25  
26 ## Including Plots  
27  
28
```

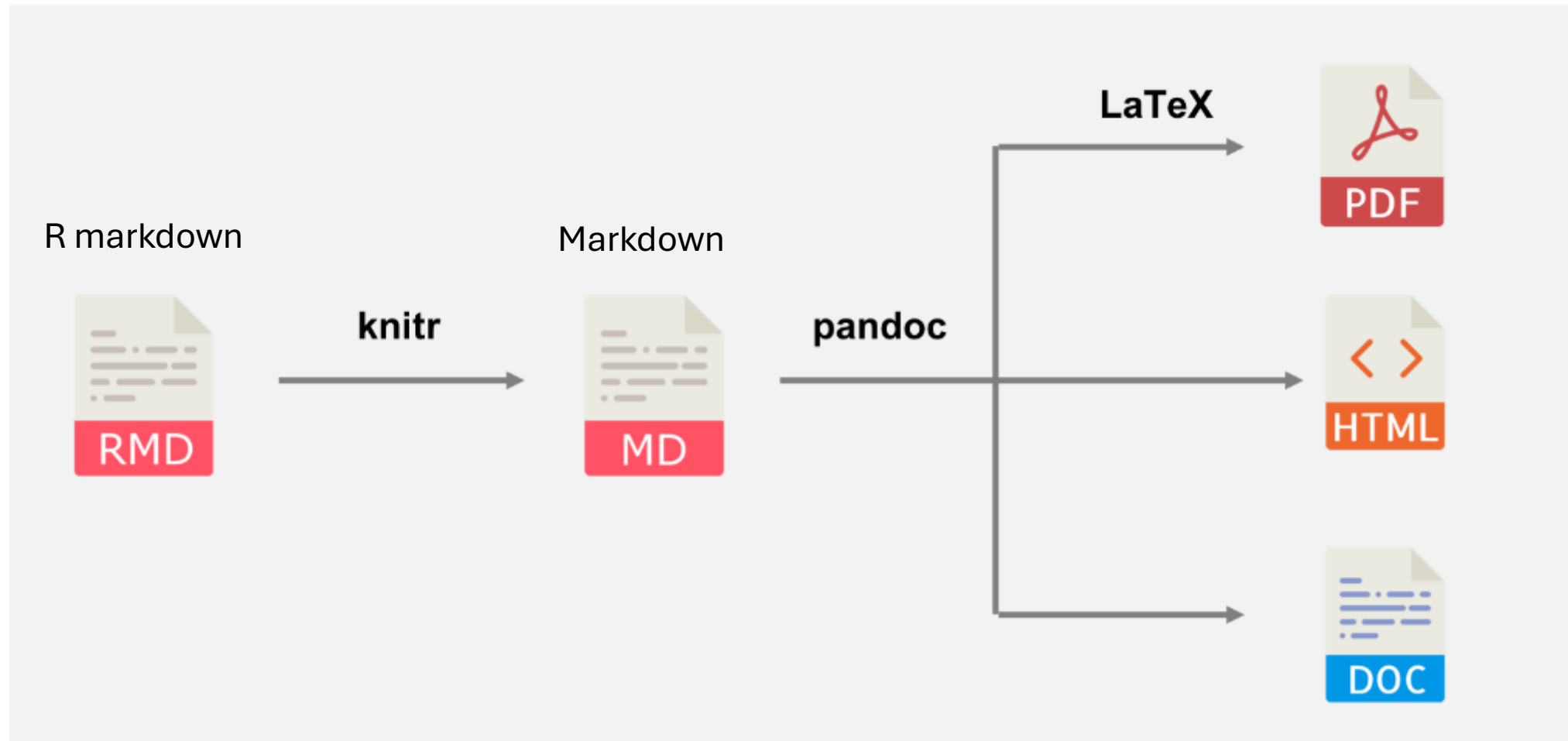
R 4.3.0 · D:/cycu/112-2/大數據分析/R/112-2\_Data-analysis/  
Copyright (C) 2023 The R Foundation for Statistical Computing  
Platform: x86\_64-w64-mingw32/x64 (64-bit)

新增 R code chunk

(也可以自己手動輸入)



R markdown = knitr + Pandoc Markdown



- knitr: A tool for embedding R code & execution results into a Markdown document.
- Pandoc: a tool for conversion between multiple document format
- Pandoc Markdown: Markdown extensions by Pandoc

Knit 前需要先存檔

The screenshot shows the RStudio interface with the following components:

- Source Editor:** Contains R code and YAML headers for a document titled "R 基礎指令".

```
1 ---
2 title: "R 基礎指令"
3 author: "Li-Hsin Chien"
4 date: "2024-03-01"
5 output: html_document
6 ---
7
8 #### R 基本指令 (2024-02-19)
9
10 * 向量
11
12 ```{r}
13 x <- c(1,6,2)
14 x # print x
15 y <- c(1,4,3)
16 y
17 length(x) # 向量長度
18 ```
19
20 |
```
- Knit Button:** Located in the top toolbar, highlighted with a red box. A tooltip indicates "Knit the current document (Ctrl+Shift+K)".
- Viewer:** Displays the rendered HTML output of the R code, showing the title, author, date, and the results of the R commands.

**Rendered HTML Output:**

```
R 基礎指令
Li-Hsin Chien
2024-03-01

R 基本指令
2月19的上課內容。
向量相關指令

x <- c(1,6,2) #建立向量
x # print x

## [1] 1 6 2

y <- c(1,4,3)
y

## [1] 1 4 3

length(x) #向量長度

## [1] 3
```

# References

- <https://bookdown.org/yihui/rmarkdown-cookbook/>
- <https://slides.yihui.org/2020-taipei-satrdays-rmarkdown.html#1>
- <https://yongfu.name/2019-fju-rmd-talk/slide/#1>