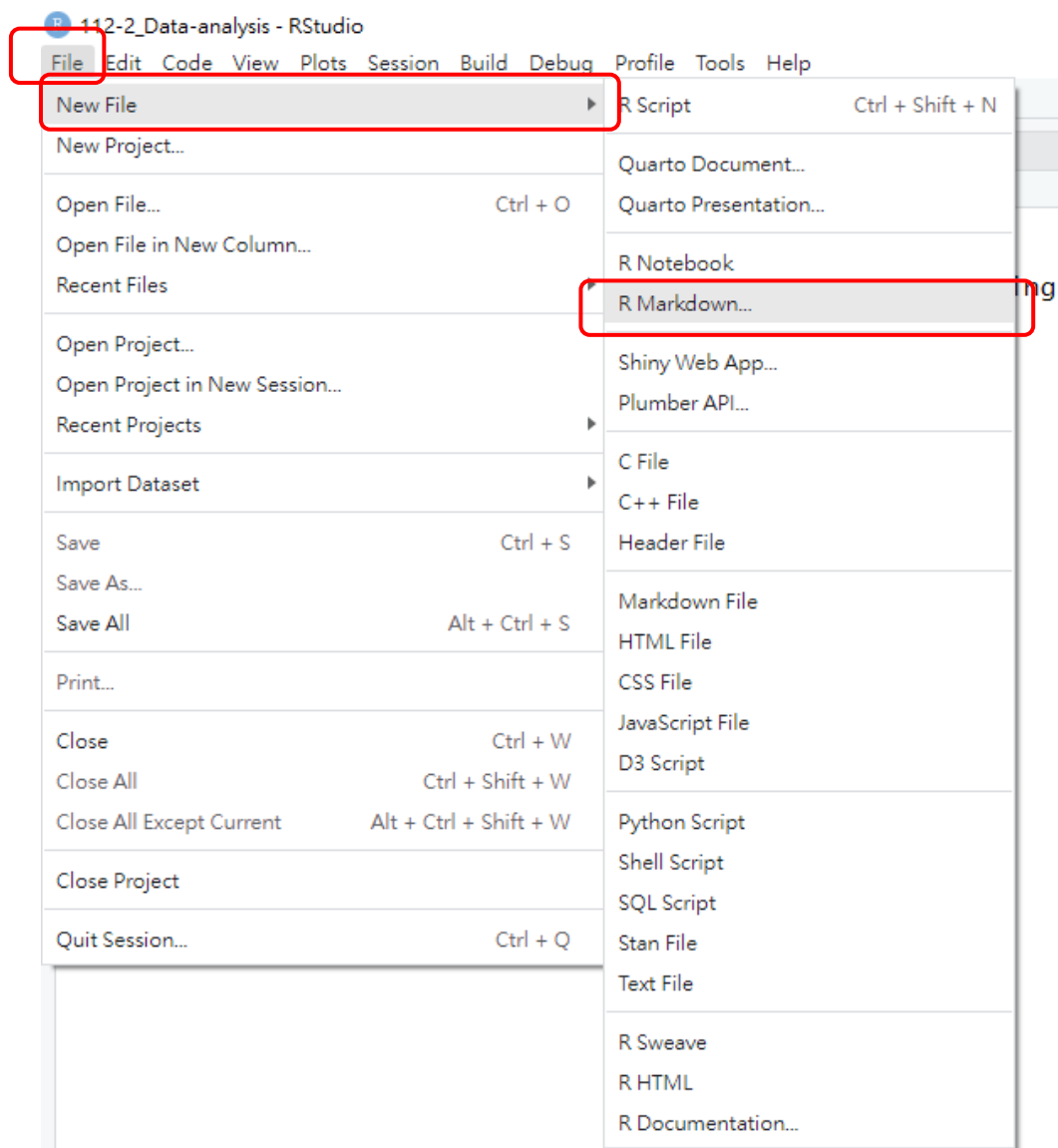


R markdown

2024-03-04

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/>

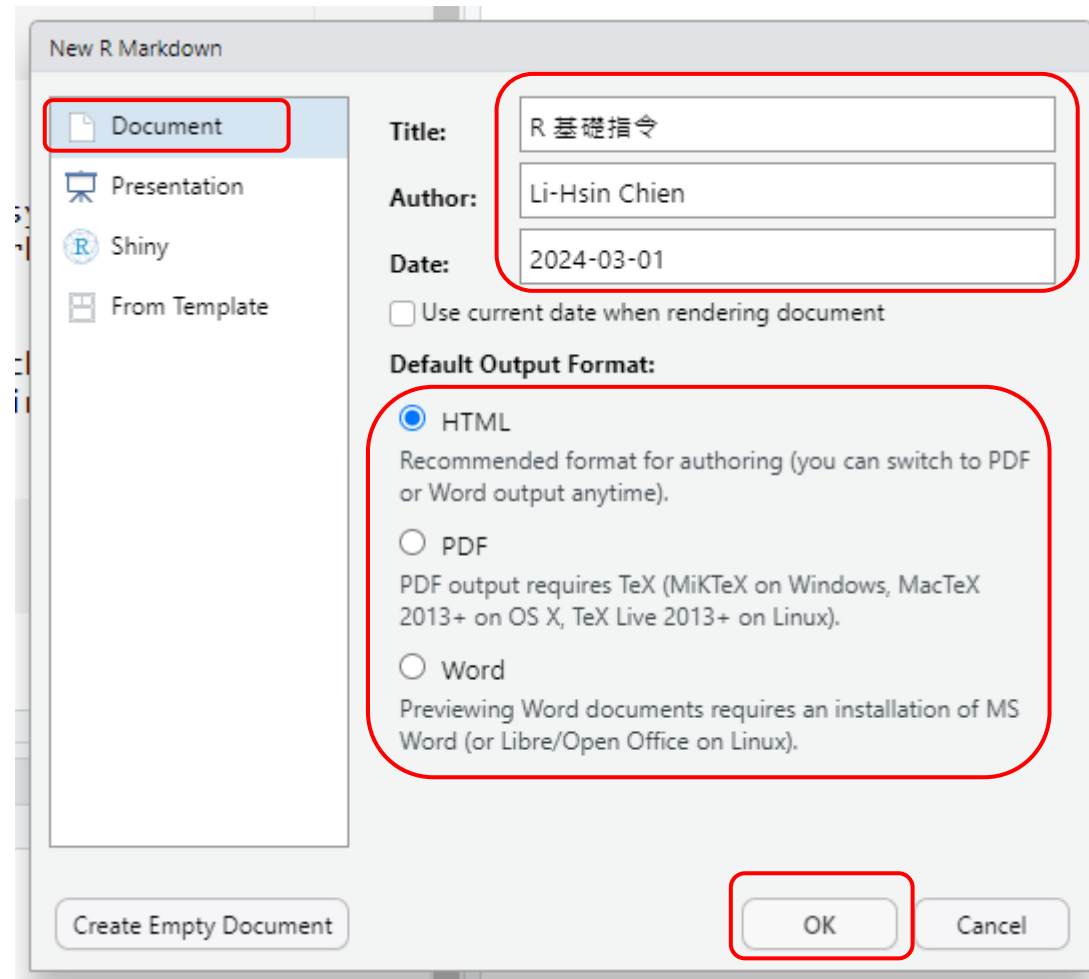
2. PDF檔:

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

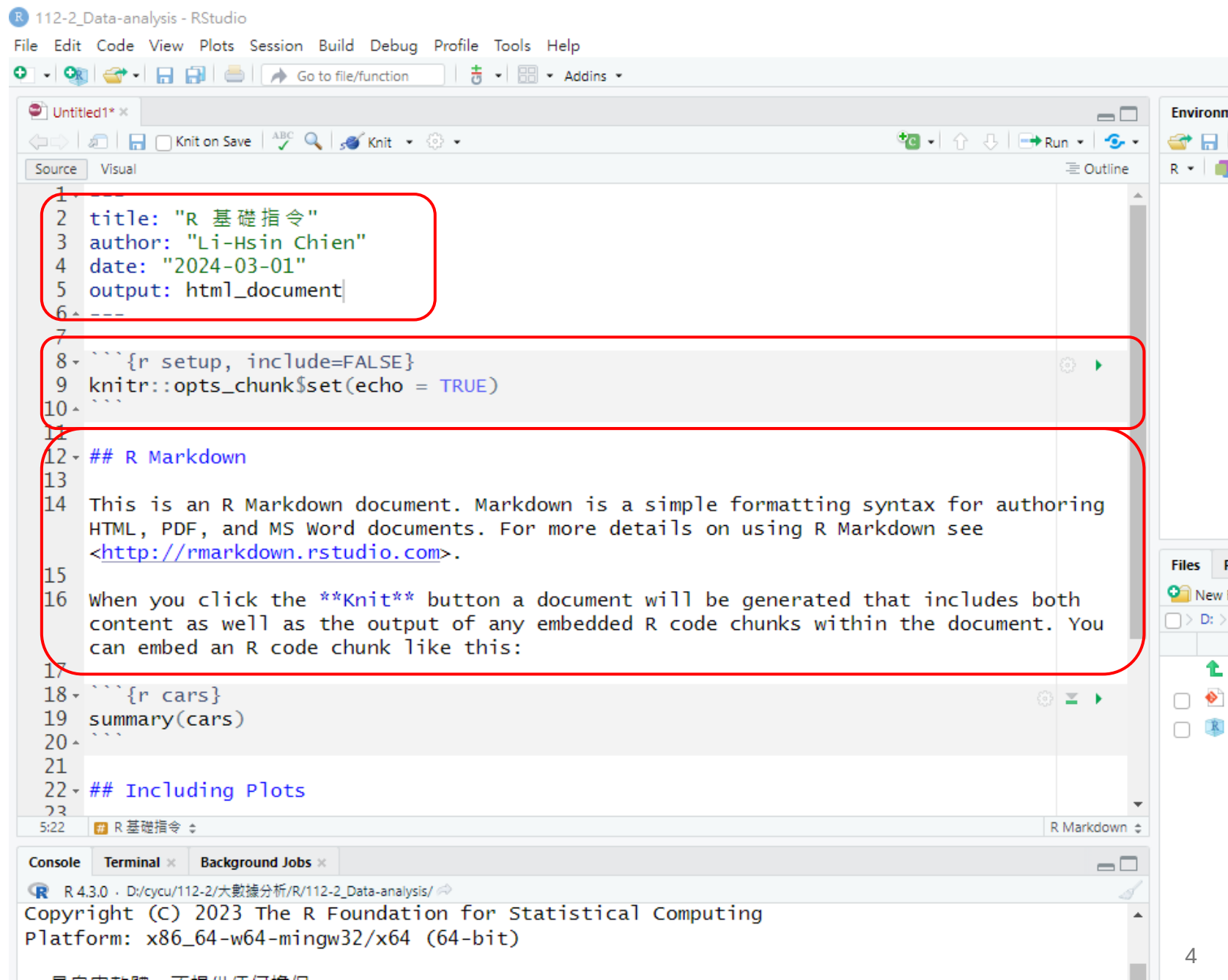
檔案附檔名 .RMD



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)



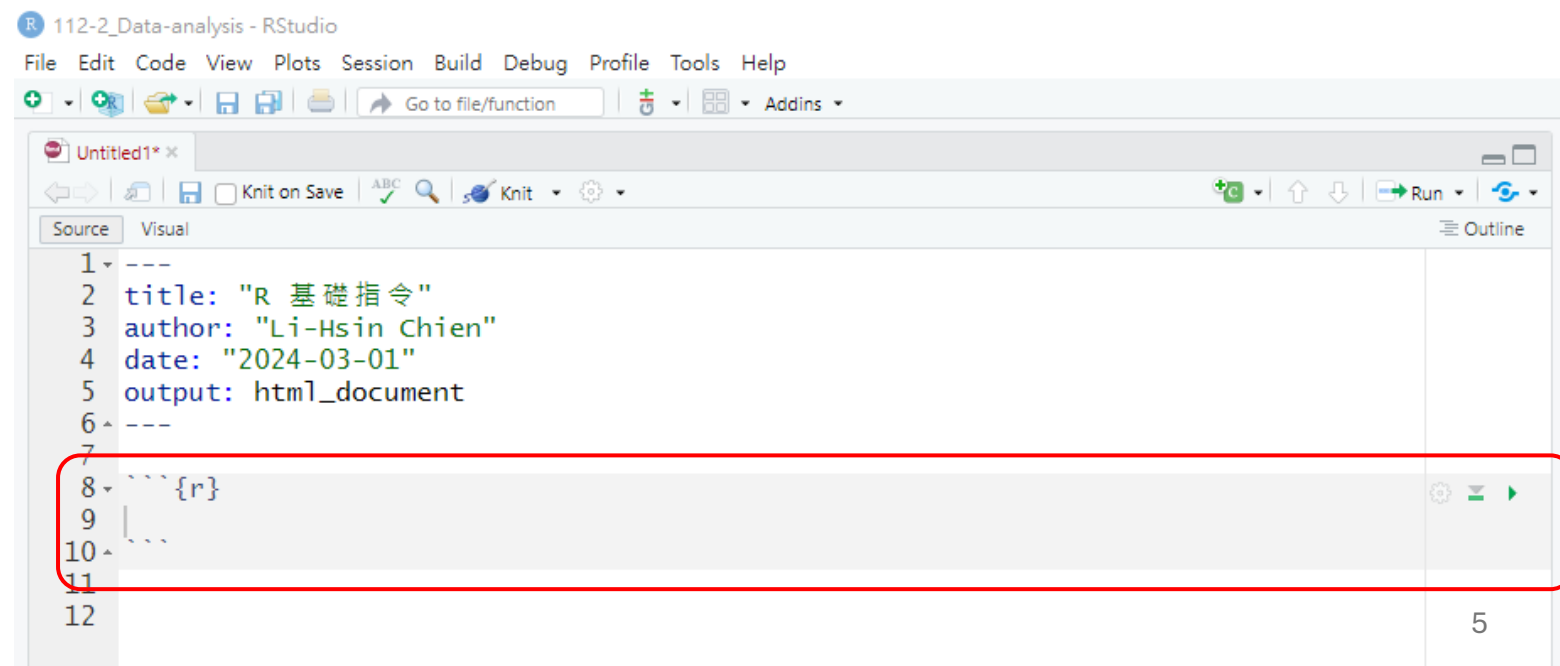
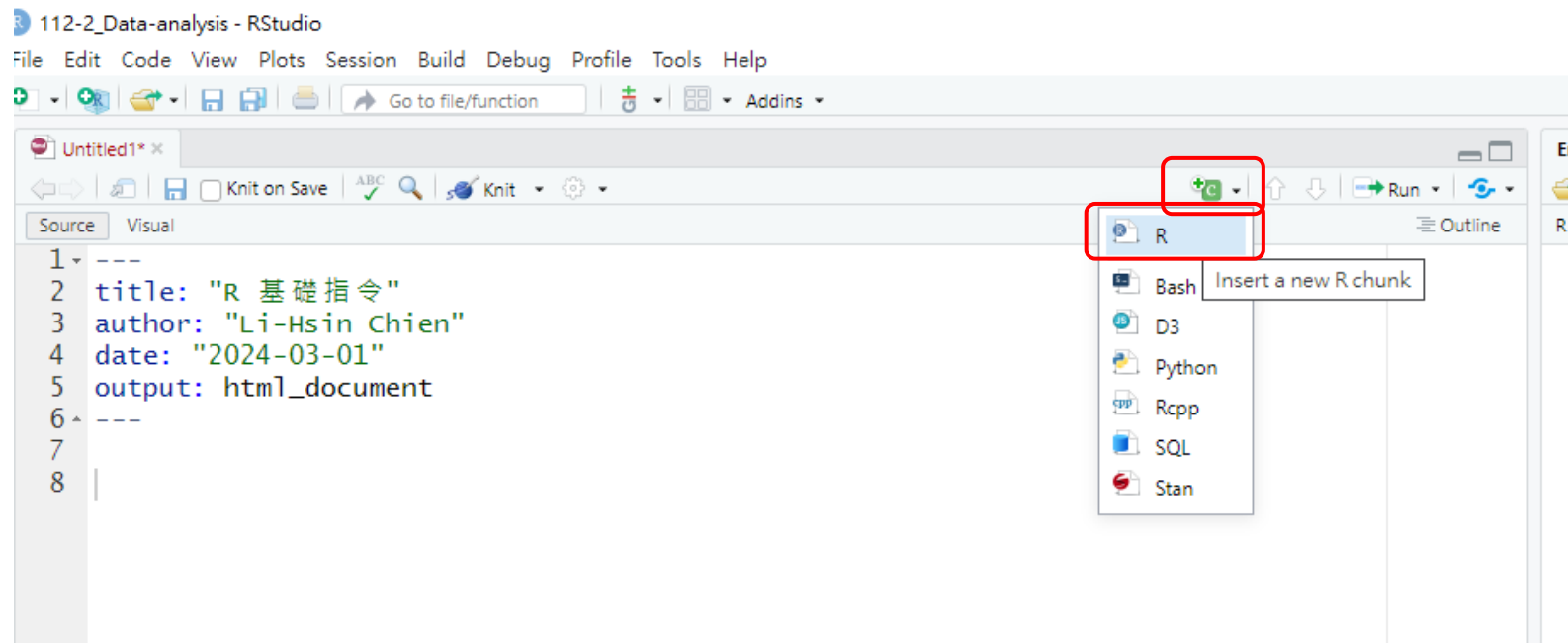
The screenshot shows the RStudio interface with an R Markdown document titled 'Untitled1*.rmd'. The document is divided into three main sections, each highlighted with a red box and an arrow pointing from the left-side labels:

- YAML Frontmatter:** Lines 2-5, enclosed in a red box. It contains metadata: `title: "R 基礎指令"`, `author: "Li-Hsin Chien"`, `date: "2024-03-01"`, and `output: html_document`.
- R code chunk:** Lines 8-10, enclosed in a red box. It contains R code for setting Knitr options: `{r setup, include=FALSE}`, `knitr::opts_chunk$set(echo = TRUE)`.
- Markdown Content:** Lines 12-17, enclosed in a red box. It contains general document information: `## R Markdown`, a paragraph explaining R Markdown, and a code chunk example: `{r cars}`, `summary(cars)`.

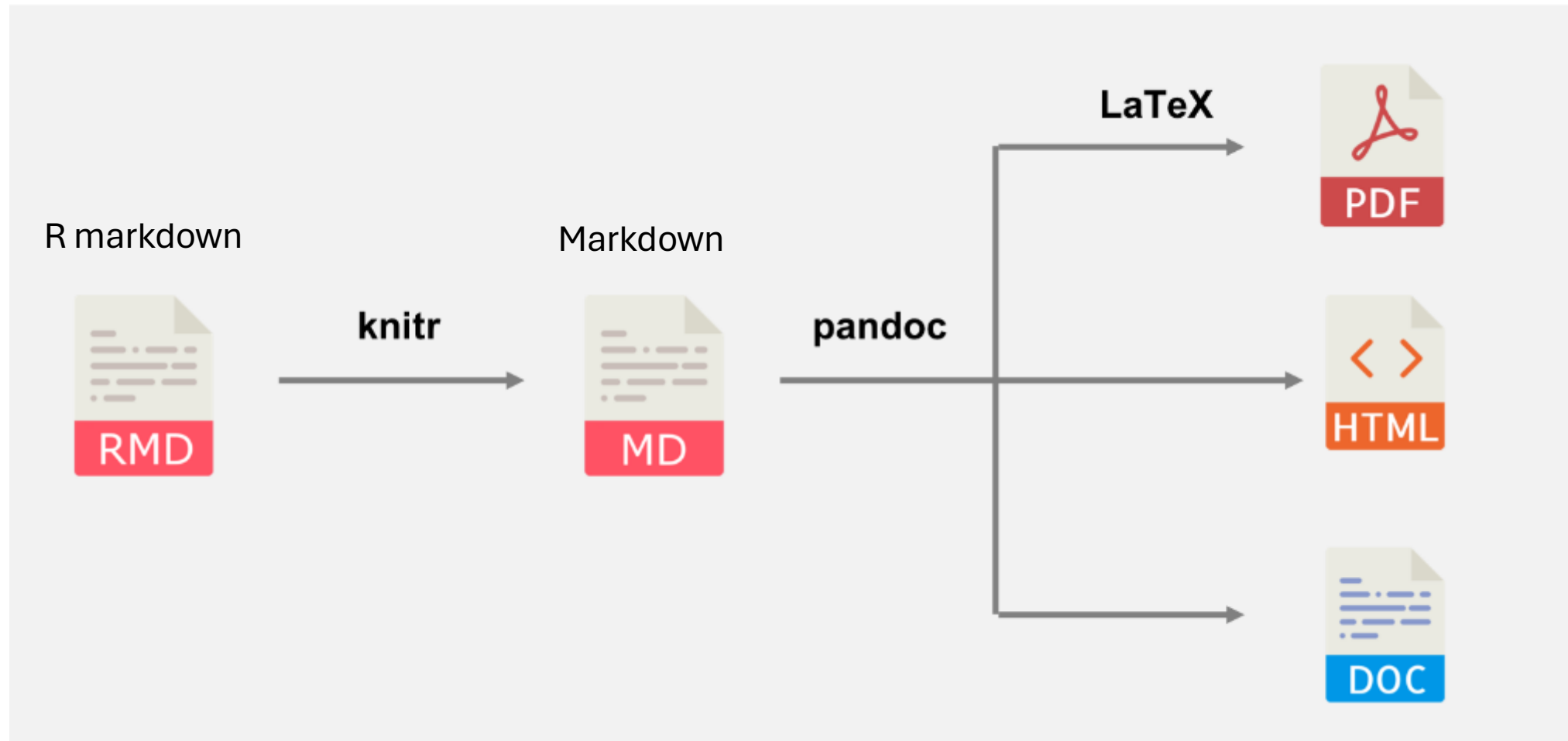
The bottom of the screenshot shows the R console with the R version (4.3.0) and platform (x86_64-w64-mingw32/x64 (64-bit)).

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:

- Menu Bar:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Toolbar:** Includes icons for saving, running, and knitting. The **Knit** button is highlighted with a red box, and a tooltip indicates "Knit the current document (Ctrl+Shift+K)".
- Source Editor:** Contains the following R code:

```
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 |
```
- Output Window:** Displays the rendered HTML document with the following content:

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>