

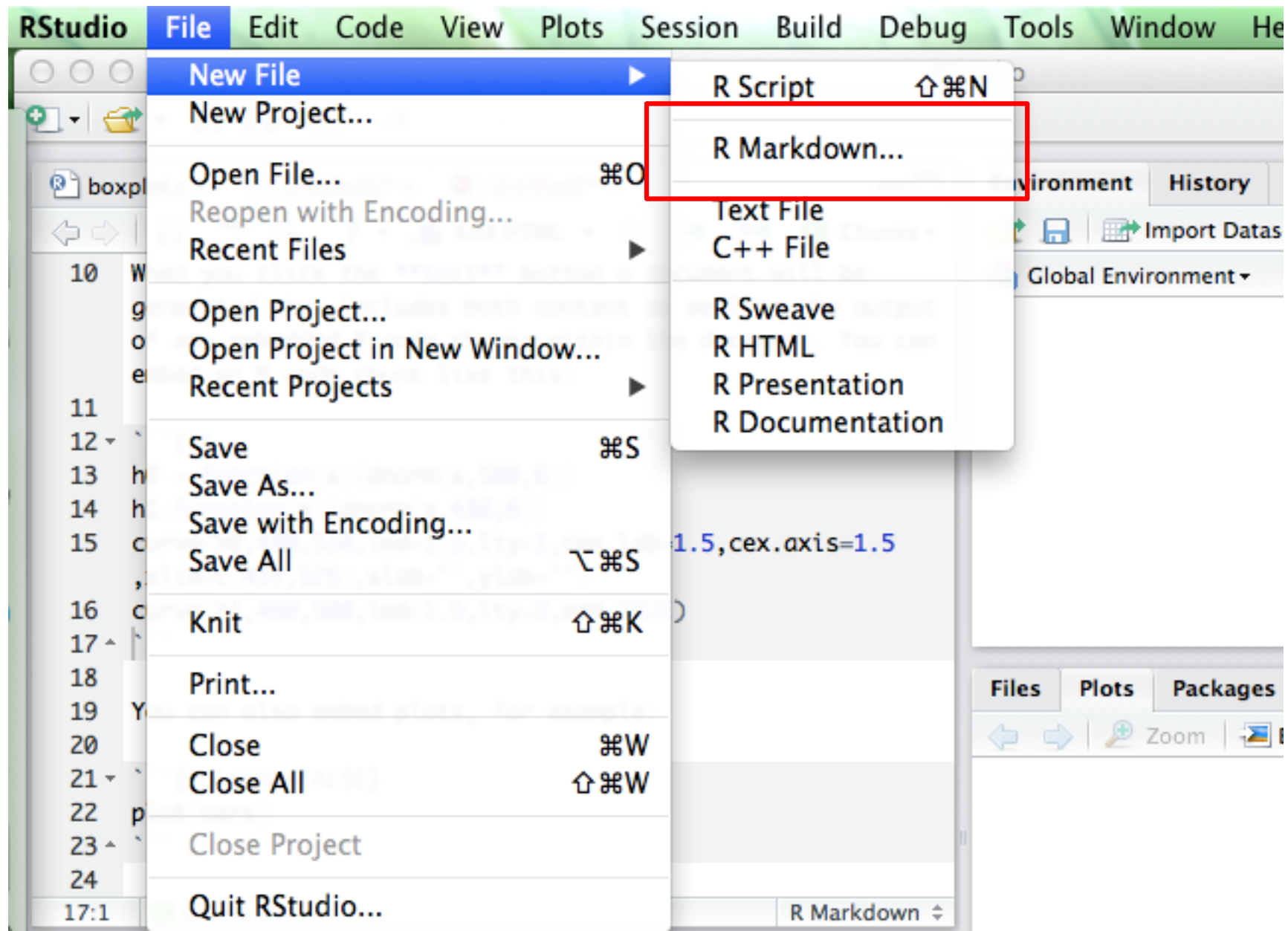
統計應用軟體

Statistical Computations and Analysis

Lecture 10: Basic 'Rmarkdown'

Rmarkdown

- <http://rmarkdown.rstudio.com>
- R Markdown is an authoring format that enables easy creation of dynamic documents, presentations, and reports from R.
- You can install the R Markdown package from CRAN as follows:
> `install.packages("rmarkdown")`



First Code

斜體

****粗體****

空行代表段落分隔

```{r} R 程式寫在中間 ```



[http://rmarkdown.rstudio.com/authoring\\_rcodechunks.html](http://rmarkdown.rstudio.com/authoring_rcodechunks.html)

```
``{r}
summary(cars)
``
```

Show code and result

```
``{r, echo=FALSE}
summary(cars)
``
```

Show result only

```
``{r, eval=FALSE}
summary(cars)
``
```

Show code without evaluating it

# Show data.frame in a Table

```
``{r, results='asis'}
knitr::kable(yourDataFrameHere)
``
```

```
knitr::kable(mtcars)
```

|                   | mpg  | cyl | disp  | hp  | drat | wt    | qsec  | vs | am | gear | carb |
|-------------------|------|-----|-------|-----|------|-------|-------|----|----|------|------|
| Mazda RX4         | 21.0 | 6   | 160.0 | 110 | 3.90 | 2.620 | 16.46 | 0  | 1  | 4    | 4    |
| Mazda RX4 Wag     | 21.0 | 6   | 160.0 | 110 | 3.90 | 2.875 | 17.02 | 0  | 1  | 4    | 4    |
| Datsun 710        | 22.8 | 4   | 108.0 | 93  | 3.85 | 2.320 | 18.61 | 1  | 1  | 4    | 1    |
| Hornet 4 Drive    | 21.4 | 6   | 258.0 | 110 | 3.08 | 3.215 | 19.44 | 1  | 0  | 3    | 1    |
| Hornet Sportabout | 18.7 | 8   | 360.0 | 175 | 3.15 | 3.440 | 17.02 | 0  | 0  | 3    | 2    |
| Valiant           | 18.1 | 6   | 225.0 | 105 | 2.76 | 3.460 | 20.22 | 1  | 0  | 3    | 1    |
| Duster 360        | 14.3 | 8   | 360.0 | 245 | 3.21 | 3.570 | 15.84 | 0  | 0  | 3    | 4    |
| Merc 240D         | 24.4 | 4   | 146.7 | 62  | 3.69 | 3.190 | 20.00 | 1  | 0  | 4    | 2    |
| Merc 230          | 22.8 | 4   | 140.8 | 95  | 3.92 | 3.150 | 22.90 | 1  | 0  | 4    | 2    |
| Merc 280          | 19.2 | 6   | 167.6 | 123 | 3.92 | 3.440 | 18.30 | 1  | 0  | 4    | 4    |

# Cheat Sheet

<http://www.rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf>

**3. Markdown** Next, write your report in plain text. Use markdown syntax to describe how to format text in the final report.

## syntax

```
Plain text
End a line with two spaces to start a new paragraph.
italics and _italics_
bold and __bold__
superscript^2^
~~strikethrough~~
[link](www.rstudio.com)

Header 1

Header 2

Header 3

Header 4

Header 5

Header 6

endash: --
emdash: ---
ellipsis: ...
inline equation: $A = \pi * r^{2}$
image:

horizontal rule (or slide break):

```

## becomes

Plain text  
End a line with two spaces to start a new paragraph.  
*italics* and *italics*  
**bold** and **bold**  
superscript<sup>2</sup>  
~~strikethrough~~  
[link](#)

# Header 1

## Header 2


### Header 3

#### Header 4

##### Header 5

###### Header 6

endash: –  
emdash: —  
ellipsis: …  
inline equation:  $A = \pi * r^2$

image: 

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horizontal rule (or slide break):