



# 小結



郭耀仁



# 矩陣

---

```
my_mat <- matrix(1:10, nrow = 2)
```

```
class(my_mat)
```

```
my_mat <- matrix(1:10, nrow = 2, byrow = TRUE)
```

# 矩陣：索引值選擇

---

`my_mat[2, ]`

`my_mat[, 3]`

`my_mat[2, 3]`

# 矩陣：條件式選擇

---

- Conditional statement

```
my_mat[my_mat < 4 | my_mat > 7]
```

# 資料框

---

```
name <- c("蒙其D魯夫", "羅羅亞索隆", "娜美", "賓什莫克香吉士")
is_female <- c(FALSE, FALSE, TRUE, FALSE)
age <- c(19, 21, 20, 21)
df <- data.frame(name, is_female, age)
```

# 資料框：索引值選擇

---

df[2,]

df[, 3]

df[2, 3]

# 資料框:\$ 符號與變數名稱

---

```
df[, "name"]
```

```
df[, c("name", "age")]
```

```
df$name
```

# 資料框：條件式選擇觀測值

---

- 注意要將逗號保留

```
df[df$is_female == TRUE,]  
df[df$age > 19,]
```



# 常用的探索函數

---

`dim()`

`nrow()`

`ncol()`

`summary()`

`str()`

`head()`

`tail()`

`names()`