

原住民族資料分析線上訓練工作坊：R的基礎 與應用

第四週

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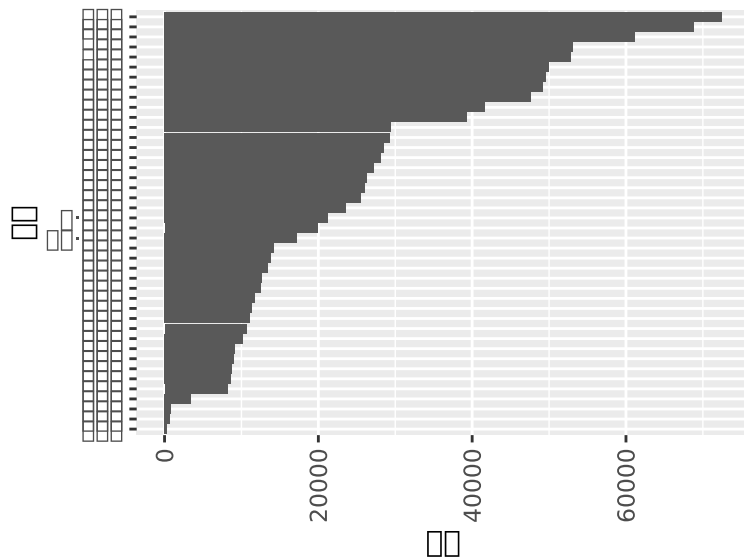
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ggplot 案例一

```
library(tidyverse)
taitung_county <- read_csv("data/taitung_county.csv", show_col_types = FALSE)
member <- taitung_county %>%
  rename(member = 議員,
         money = `建議金額(單位: 千元)`,
         year = 年,
         district = `選區(95-100年)`) %>%
  group_by(member) %>%
  mutate(sum_money = sum(money)) %>%
  dplyr::select(member, sum_money) %>%
  dplyr::distinct(member, .keep_all = TRUE)
```

ggplot 案例一

```
member %>%  
  ggplot(aes(x= reorder(menber, sum_money), y=sum_money)) +  
  geom_bar(stat = "identity") +  
  theme(text = element_text(family = "STHeiti")) +  
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1)) +  
  coord_flip() +  
  xlab("議員") +  
  ylab("金額")
```

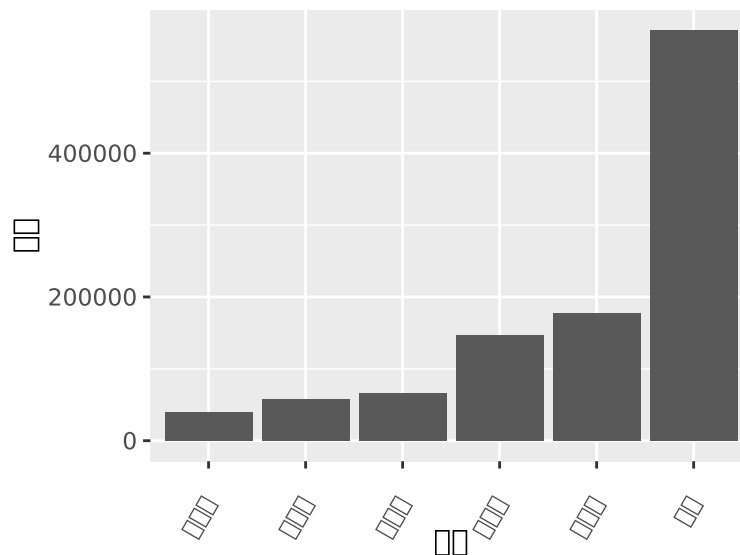


ggplot 案例二

```
ethnicity <- taitung_county %>%  
  rename(member = 議員,  
          money = `建議金額(單位: 千元)`,  
          year = 年,  
          district = `選區(95-100年)`,  
          ethnicity = 族群別) %>%  
  group_by(ethnicity) %>%  
  mutate(sum_money = sum(money)) %>%  
  dplyr::select(ethnicity, sum_money) %>%  
  dplyr::distinct(ethnicity, .keep_all = TRUE)
```

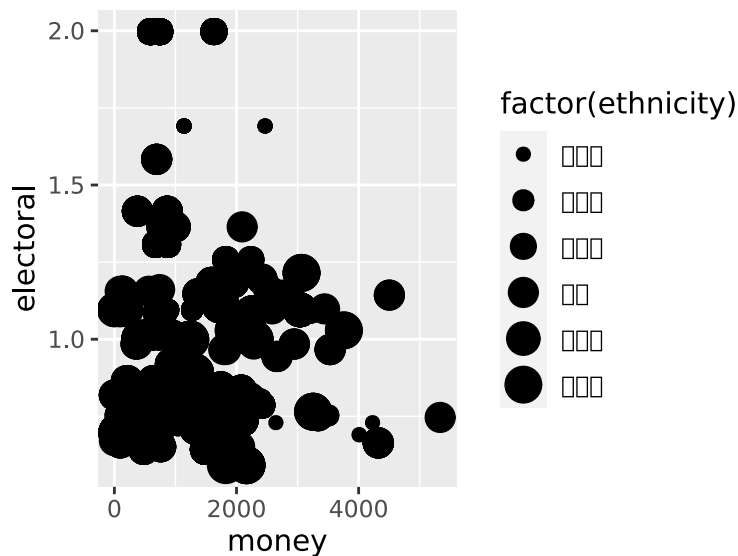
ggplot 案例二

```
options(scipen = 999)
ethnicity %>%
  ggplot(aes(x= reorder(ethnicity, sum_money), y=sum_money)) +
  geom_bar(stat = "identity") +
  theme(text = element_text(family = "STHeiti")) +
  theme(axis.text.x = element_text(angle = 60, vjust = 0.5, hjust=1)) +
  #coord_flip() +
  xlab("族群") +
  ylab("金額")
```



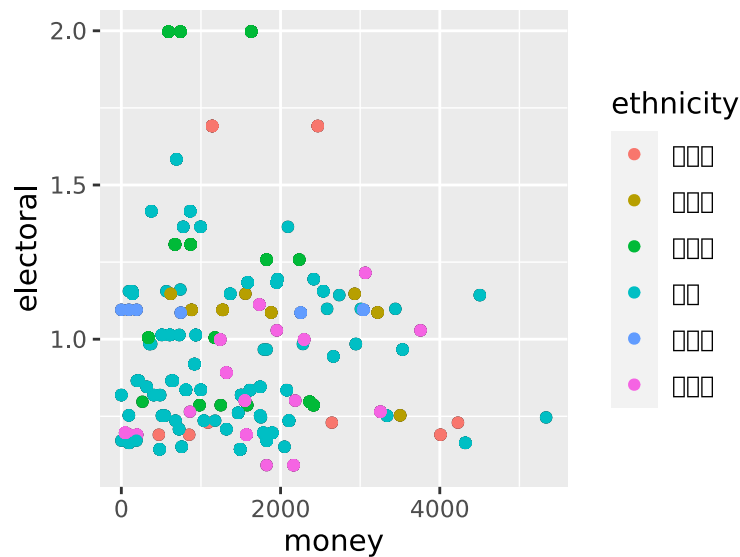
ggplot 案例三

```
taitung_county %>%  
  rename(member = 議員,  
         money = `建議金額(單位: 千元)`,  
         year = 年,  
         district = `選區(95-100年)`,  
         ethnicity = 族群別,  
         electoral = `勝選幅度DQ`) %>%  
  ggplot(aes(x = money, y=electoral)) +  
  geom_point() +  
  #geom_point(aes(color=ethnicity)) +  
  geom_point(aes(size=factor(ethnicity))) +  
  theme(text = element_text(family = "STHeiti"))
```



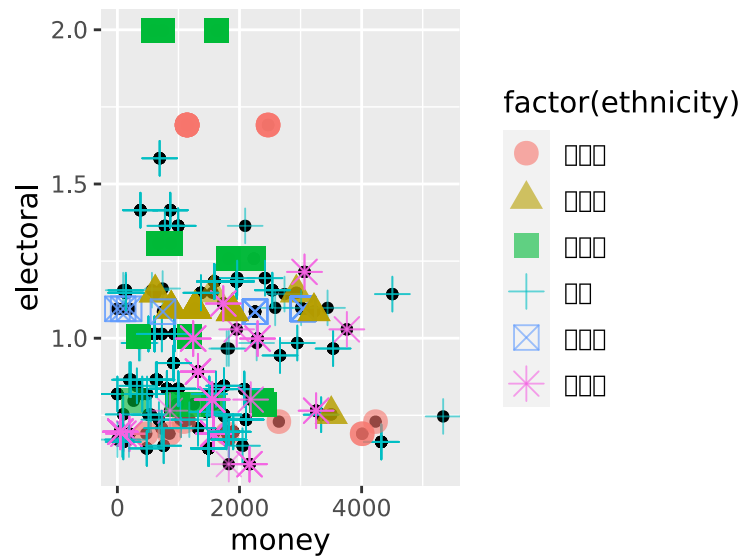
ggplot 案例三

```
taitung_county %>%  
  rename(member = 議員,  
         money = `建議金額(單位: 千元)`,  
         year = 年,  
         district = `選區(95-100年)`,  
         ethnicity = 族群別,  
         electoral = `勝選幅度DQ`) %>%  
  ggplot(aes(x = money, y=electoral)) +  
  geom_point() +  
  geom_point(aes(color=ethnicity)) +  
  theme(text = element_text(family = "STHeiti"))
```



ggplot 案例三

```
taitung_county %>%  
  rename(member = 議員,  
         money = `建議金額(單位: 千元)`,  
         year = 年,  
         district = `選區(95-100年)`,  
         ethnicity = 族群別,  
         electoral = `勝選幅度DQ`) %>%  
  ggplot(aes(x = money, y=electoral)) +  
  geom_point() +  
  theme(text = element_text(family = "STHeiti")) +  
  geom_point(aes(shape=factor(ethnicity),color=factor(ethnicity)),size=4,alpha=0.6)
```



ggplot 案例三

```
taitung_county %>%  
  rename(member = 議員,  
         money = `建議金額(單位:千元)`,  
         year = 年,  
         district = `選區(95-100年)`,  
         ethnicity = 族群別,  
         electoral = `勝選幅度DQ`) %>%  
  ggplot(aes(x = money, y=electoral)) +  
  geom_point() +  
  theme(text = element_text(family = "STHeiti")) +  
  geom_point(aes(colour = year),size=4) + scale_colour_gradient(high='red',low = "blue")
```

