#先讀入 IMDb_Feature Film_2022_review_data 檔案並用 Title 找到想要觀察的電影,我選擇雷神(Thor: Love and Thunder)和德州電鋸殺人狂(Texas Chainsaw Massacre)

#引入 tm 套件

#Corpus()建語料庫

#tm map()將評論內容轉小寫並移除標點符號

#stopwords()將無關文字情緒的連接詞移除

#將評論轉成 matrix 形式然後篩選出前十個出現最多次的評論字眼

#探討評論:兩者都有 movi、film、charact、good、like,應該是電影情節和角色討論分享相關。其中雷神的 thor、love、marvel 和德州電鋸殺人狂的 chainsaw 則對應到電影本身

#文字雲:利用 wordcloud2()實現(見 Code 中附上的文字雲圖)

#引入 tidytext 套件,用 get_sentimental()獲取文字情緒並用 bing 幫助判斷情緒正負面

#比較不同滿意指標的評論文字情緒:由 table(bing_word_counts\$sentiment)可得到兩部電影評論中正、負面情緒字眼出現的次數,雖然 bing 判斷兩者評論的負面情緒都比正面多,但可看出德州電鋸殺人狂負評字眼數量相對正評字眼高出許多,又雷神 Rates(7.1)比德州電鋸殺人狂 Rates(4.8)高,比較這兩部電影可推測 Rates 較低的電影評論裡有較高比例的負面情緒字眼

Thor: Love and Thunder (Rates=7.1)

Code:

film <- read.csv("IMDb_Feature Film_2022_review_data.csv") film1=film[which(film\$Title=="Thor: Love and Thunder"),]

library(tm)

x1 <- Corpus(VectorSource(film1\$Review))#建語料庫

x1 <- tm map(x1,tolower)

x1 <- tm map(x1,content transformer(tolower))

x1 <- tm map(x1,removePunctuation)

x1StopWords <- c(stopwords(),"the","and","this","that","was","but","for")

x1 <- tm map(x1,removeWords,x1StopWords)</pre>

library(SnowballC)

x1 <- tm map(x1,stemDocument)</pre>

x1tdm <- TermDocumentMatrix(x1)
inspect(x1tdm)</pre>

```
x1review <- as.matrix(x1tdm)
x1freq <- rowSums(x1review)
x1freq <- sort(x1freq, decreasing=T)</pre>
```

x1freq[1:10]

> x1freq[1:10]

movi film good charact marvel time thor like love just 301 299 1092 695 422 407 346 291 290 270

barplot(x1freq[1:10],las=2,col="blue")

library(wordcloud2)

x1freqframe <- data.frame(word=names(x1freq),num=x1freq)

wordcloud2(x1freqframe,size=1)



library(tidytext)

library(tidyverse)

bing_word_counts1 <- x1freqframe %>%

 $inner_join(get_sentiments("bing"))~\%>\%$

count(word,sentiment,sort=TRUE)

table(bing_word_counts1\$sentiment)

> table(bing_word_counts1\$sentiment)

negative positive 293 178

```
Texas Chainsaw Massacre (Rates=4.8)
Code:
film2=film[which(film$Title=="Texas Chainsaw Massacre"),]
library(tm)
x2 <- Corpus(VectorSource(film2$Review))#建語料庫
x2 <- tm map(x2,tolower)
x2 <- tm_map(x2,content_transformer(tolower))</pre>
x2 <- tm_map(x2,removePunctuation)
x2StopWords <- c(stopwords(),"the","and","this","that","was","but","for")
x2 <- tm_map(x2,removeWords,x2StopWords)</pre>
library(SnowballC)
x2 <- tm_map(x2,stemDocument)</pre>
x2tdm <- TermDocumentMatrix(x2)
inspect(x2tdm)
x2review <- as.matrix(x2tdm)
x2freq <- rowSums(x2review)
x2freq <- sort(x2freq, decreasing=T)
x2freq[1:10]
> x2freq[1:10]
              film
                        like charact
                                                               watch chainsaw
    movi
                                            just
                                                        one
    1458
               817
                         573
                                    568
                                             565
                                                        493
                                                                  490
                                                                            482
  origin
              good
     459
               434
barplot(x2freq[1:10],las=2,col="blue")
library(wordcloud2)
x2freqframe <- data.frame(word=names(x2freq),num=x2freq)
wordcloud2(x2freqframe,size=1)
```



library(tidytext)
library(tidyverse)
bing_word_counts2 <- x2freqframe %>%
 inner_join(get_sentiments("bing")) %>%
 count(word,sentiment,sort=TRUE)
table(bing_word_counts2\$sentiment)
> table(bing_word_counts2\$sentiment)

negative positive 395 192