

#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()將無關文字情緒的连接詞移除

#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)
library(SnowballC)
x1 <- tm_map(x1,stemDocument)

x1tdm <- TermDocumentMatrix(x1)
inspect(x1tdm)
```


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))
```

```
x2 <- tm_map(x2,removePunctuation)
```

```
x2StopWords <- c(stopwords(),"the","and","this","that","was","but","for")
```

```
x2 <- tm_map(x2,removeWords,x2StopWords)
```

```
library(SnowballC)
```

```
x2 <- tm_map(x2,stemDocument)
```

```
x2tdm <- TermDocumentMatrix(x2)
```

```
inspect(x2tdm)
```

```
x2review <- as.matrix(x2tdm)
```

```
x2freq <- rowSums(x2review)
```

```
x2freq <- sort(x2freq, decreasing=T)
```

```
x2freq[1:10]
```

```
> x2freq[1:10]
```

movi	film	like	charact	just	one	watch	chainsaw
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)
```

