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# 인문학 텍스트 마이닝

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# **Text Analysis “wordcloud”**

## Text Analysis “wordcloud”

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- 경로 지정

```
> setwd("/Users/Seongmin_M/Desktop/Class")  
>
```

- 데이터 불러오기

```
> Harry_potter_1 <- file("/Users/Seongmin_M/Desktop/Class/Harry_potter_1.txt", blocking=F)
```

- 데이터 읽어들이기

```
> Harry_txtLines <- readLines(Harry_potter_1)
```

- 데이터 닫기

```
> close(Harry_potter_1)
```

- 데이터 다듬기

```
> Harry_txtLines <- gsub("()", "", Harry_txtLines)  
> Harry_txtLines <- gsub("<", "", Harry_txtLines)  
> Harry_txtLines <- gsub(">", "", Harry_txtLines)  
> Harry_txtLines <- gsub("[ \\t]{2,}", "", Harry_txtLines)
```

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- tm 패키지 설치 및 라이브러리 불러오기

```
> install.packages("tm")
```

```
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   %    %         %         Dload  Upload  Total  Spent    Left     Speed
  0     0     0     0     0     0     0     0     0     0100  644k  100
644k    0     0 1290k     0     0     0     0     0     1292k
```

The downloaded binary packages are in

```
/var/folders/28/g8cf_pvx46s5phqgwr6qq7jw0000gn/T//RtmpZs3wki/downloaded_packages
```

```
> library(tm)
```

필요한 패키지를 로딩중입니다: NLP

- 텍스트 데이터를 코퍼스데이터로 변환

```
> Harry_txtLines_corpus <- Corpus(VectorSource(Harry_txtLines))
```

- 마침표 제거하기

```
> Harry_txtLines_corpus <- tm_map(Harry_txtLines_corpus, function(x)removeWords(x,stopwords()
))
```

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- 수치형 데이터로 형 변환

```
> Harry_Tdm <- TermDocumentMatrix(Harry_txtLines_corpus, control = list(wordLengths = c(2, Inf)))
```

- wordcloud 패키지 설치 및 라이브러리 불러오기

```
> install.packages("wordcloud")
```

```
% Total      % Received % Xferd  Average Speed   Time    Time       Time  Current
             %          %         Dload  Upload    Total   Spent    Left   Speed
  0     0    0     0     0     0     0     0  ---:--:--  ---:--:--  ---:--:--    0  1  138k   1
2168    0    0  2067     0  0:01:08  0:00:01  0:01:07  2068100  138k  100  138k   0   0
126k     0  0:00:01  0:00:01  --:--:--  126k
```

The downloaded binary packages are in

```
/var/folders/28/g8cf_pvx46s5phqgwr6qq7jw0000gn/T//RtmpZs3wki/downloaded_packages
```

```
>
```

```
> library(wordcloud)
```

필요한 패키지를 로딩중입니다: RColorBrewer

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- 매트릭스 형태로 형 변환

```
> Harry_Tdm_M <- as.matrix(Harry_Tdm)
```

- 단어들의 출현빈도 카운팅

```
> Harry_wordFreq <- sort(rowSums(Harry_Tdm_M), decreasing = TRUE)
```

- 워드클라우드 색상 지정

```
> pal <- brewer.pal(8, "Dark2")
```

