```
---
title: "Word Cloud"
output: flexdashboard::flex_dashboard
---

```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = FALSE)
knitr::opts_chunk$set(message = FALSE)
```

```{r}
source("../../LSR.R")
setLang("kr")
activate("tm", "SnowballC", "wordcloud", "KoNLP", "pdftools")
activate("ggplot2", "dplyr", "RColorBrewer", "wordcloud2")
```

Three Questions
=====================================

Column {data-width=500}

```{r}
text <- pdf_text("../script/three_questions.pdf")
docs <- Corpus(VectorSource(text))
lang <- "en"
freqTable <- cleanDocsGenerateFreqTable(docs, lang)
```

Boxplot

```{r}
ggplot(head(freqTable,20)) +
  geom_bar(aes(x=reorder(word, freq), y=freq), stat="identity") +
  coord_flip()
```

Column {data-width=500}

Word Cloud

```{r, warning = FALSE}
# wordcloud2(freqTable, color = "random-light", backgroundColor = "grey")
wordcloud(words = freqTable$word, freq = freqTable$freq,
          min.freq = 1, max.words=200, random.order=FALSE, rot.per=0.35,
          colors=brewer.pal(8, "Dark2"))
```

RainFall
=====================================

Column {data-width=500}

```{r}
text <- pdf_text("../script/sonaki.pdf")
docs <- sapply(text, extractNoun, USE.NAMES = F) %>% unlist()
docs <- Filter(function(x) {nchar(x) >= 2}, docs)
lang <- "kr"
freqTable <- cleanDocsGenerateFreqTable(docs, lang)
```

Boxplot

```{r}
ggplot(head(freqTable,20)) +
  geom_bar(aes(x=reorder(word, freq), y=freq), stat="identity") +
  coord_flip()
```

Column {data-width=500}

Word Cloud

```{r, warning = FALSE}
# wordcloud2(freqTable, color = "random-light", backgroundColor = "grey")
wordcloud(words = freqTable$word, freq = freqTable$freq,
          min.freq = 1, max.words=200, random.order=FALSE, rot.per=0.35,
          colors=brewer.pal(8, "Dark2"))
```

Appeal
=====================================

Column {data-width=500}

```{r}
text <- readLines("../script/appeal.txt")
docs <- sapply(text, extractNoun, USE.NAMES = F) %>% unlist()
docs <- Filter(function(x) {nchar(x) >= 2}, docs)
lang <- "kr"
freqTable <- cleanDocsGenerateFreqTable(docs, lang)
```

Boxplot

```{r}
ggplot(head(freqTable,20)) +
  geom_bar(aes(x=reorder(word, freq), y=freq), stat="identity") +
  coord_flip()
```

Column {data-width=500}

Word Cloud

```{r, warning = FALSE}
# wordcloud2(freqTable, color = "random-light", backgroundColor = "grey")
wordcloud(words = freqTable$word, freq = freqTable$freq,
          min.freq = 1, max.words=200, random.order=FALSE, rot.per=0.35,
          colors=brewer.pal(8, "Dark2"))
```

The Art of Loving
=====================================

Column {data-width=500}

```{r}
text <- pdf_text("../script/art_of_loving.pdf")
docs <- Corpus(VectorSource(text))
lang <- "en"
freqTable <- cleanDocsGenerateFreqTable(docs, lang)
```
```

```

### Boxplot

```{r}
ggplot(head(freqTable,20)) +
  geom_bar(aes(x=reorder(word, freq), y=freq), stat="identity") +
  coord_flip()
```

Column {data-width=500}

Word Cloud

```{r, warning = FALSE}
# wordcloud2(freqTable, color = "random-light", backgroundColor = "grey")
wordcloud(words = freqTable$word, freq = freqTable$freq,
          min.freq = 1, max.words=200, random.order=FALSE, rot.per=0.35,
          colors=brewer.pal(8, "Dark2"))
```

Choi
=====================================

Column {data-width=500}

```{r}
text <- readLines("../script/choi.txt")
# text <- Corpus(VectorSource(text))
docs <- sapply(text, extractNoun, USE.NAMES = F) %>% unlist(docs)
docs <- Filter(function(x) {nchar(x) >= 2}, docs) # Character length >= 2
lang <- "kr"
freqTable <- cleanDocsGenerateFreqTable(docs, lang)
```

Boxplot

```{r}
ggplot(head(freqTable,20)) +
  geom_bar(aes(x=reorder(word, freq), y=freq), stat="identity") +
  coord_flip()
```

Column {data-width=500}

Word Cloud

```{r, warning = FALSE}
# wordcloud2(freqTable, color = "random-light", backgroundColor = "grey")
wordcloud(words = freqTable$word, freq = freqTable$freq,
          min.freq = 1, max.words=200, random.order=FALSE, rot.per=0.35,
          colors=brewer.pal(8, "Dark2"))
```

I have a dream
=====================================

Column {data-width=500}

```{r}
text <- readLines("../script/dream.txt")
docs <- Corpus(VectorSource(text))
lang <- "en"
freqTable <- cleanDocsGenerateFreqTable(docs, lang)
```

Barplot

```{r}
ggplot(head(freqTable,20)) +
  geom_bar(aes(x=reorder(word, freq), y=freq), stat="identity") +
  coord_flip()
```

Column {data-width=500}

Word Cloud

```{r, warning = FALSE}
# wordcloud2(freqTable, color = "random-light", backgroundColor = "grey")
wordcloud(words = freqTable$word, freq = freqTable$freq,
          min.freq = 1, max.words=200, random.order=FALSE, rot.per=0.35,
          colors=brewer.pal(8, "Dark2"))
```
```