11: Brief Notes on Text Mining

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```
doFigs <- FALSE
Load the DAAGviz package:
```

```
library(DAAGviz, quietly=TRUE)
```

Set up a path to the directory where texts (.pdf and .txt) are stored:

Choose a color palette:

```
pal <- RColorBrewer::brewer.pal(6, "Dark2")</pre>
```

```
figset14 <- function(){
  if(!requireNamespace('tm', quietly = TRUE))stop('tm must be installed')
  if(!requireNamespace('wordcloud', quietly=TRUE))stop('wordcloud must be installed')
}</pre>
```

figset14()

```
doTDM <- if(exists("tx.tdm")) FALSE else TRUE</pre>
doCorp <- if(doTDM & !exists("tx.corp")) TRUE else FALSE</pre>
if(doCorp){
dirSource <- tm::DirSource(directory=txdir,</pre>
                         pattern=".txt$")
txcorp <- tm::Corpus(dirSource)</pre>
txcorp <- tm::tm_map(txcorp,</pre>
                  tm::content_transformer(
                       function(x) iconv(x, to="UTF-8",
                                          sub = "byte")))
if(doTDM){
ctl <- list(stopwords = c(tm::stopwords(), "[1]"),</pre>
             removePunctuation = list(preserve_intra_word_dashes = FALSE),
             removeNumbers = TRUE, stopwords=c(tm::stopwords(), "[1]"),
             minDocFreq = 2)
tx.tdm <- tm::TermDocumentMatrix(txcorp, control=ctl)</pre>
fig11.1A <- function(){</pre>
fnam1 <- as.matrix(tx.tdm)[,1]</pre>
wordcloud::wordcloud(names(fnam1), fnam1, max.words=80, colors=pal[-1],
          random.order=FALSE, scale=c(10.5,.5))
fig11.1B <- function(){</pre>
fnam2 <- as.matrix(tx.tdm)[,2]</pre>
wordcloud::wordcloud(names(fnam2), fnam2, max.words=80, colors=pal[-1],
          random.order=FALSE, scale=c(5,.5))
```

```
fig11.1A()
fig11.1B()
fig11.1C()
```

Figure 1: Wordcloud plots are A: for the words in Chapters 1 - 5; B: 6 - 7; and C: 8 - 9.