Project 2 Part 3

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Word Cloud

```
library(pdftools)
## Using poppler version 23.08.0
library(tm)
## Loading required package: NLP
library(wordcloud)
## Loading required package: RColorBrewer
library(RColorBrewer)
lapply function is used to apply pdf_text function to all the element of list "pdfs"
setwd("~/MDS503P2")
pdfs <- list.files(pattern="*.pdf")</pre>
alltext <- lapply(pdfs, pdf_text)</pre>
## PDF error: Expected the optional content group list, but wasn't able to find it, or it isn't an Arra
alltext <- unlist(alltext)</pre>
head(alltext, n=4)
## [1] "Big Data,\nMining, and\nAnalytics\n
                                                              Components\n
                                                                                           of Strategic\n
## [2] " Big Data,\nMining, and\n Analytics\n
                                                       Components of \n Strategic Decision Making \n"
```

create a single Corpus object containing all the text data, rather than separate Corpus objects for each PDF.

Components of \n Strategic Decision Making $\n\n\n$

[4] " Big Data,\nMining, and\n Analytics\n

```
myCorpus <- Corpus(VectorSource(alltext))</pre>
myCorpus <- tm_map(myCorpus, content_transformer(tolower))</pre>
myCorpus <- tm_map(myCorpus,removePunctuation)</pre>
myCorpus <- tm_map(myCorpus,removeNumbers)</pre>
removeURL <- function(X) gsub("http[^[:space:]]*","",X)</pre>
myCorpus <- tm_map(myCorpus, content_transformer(function(x) gsub("\\n", " ", x)))
myCorpus <- tm map(myCorpus,removeURL)</pre>
myCorpus <- tm map(myCorpus,removeWords,stopwords("english"))</pre>
myCorpus <- tm_map(myCorpus,removeWords,c("can","may","eg","ie","h","b","p","k","g","q","set","used"))
myCorpus <- tm_map(myCorpus, content_transformer(function(x) gsub("\n*","", x)))
myCorpus <- tm_map(myCorpus,stripWhitespace)</pre>
inspect(myCorpus[1:2])
## <<SimpleCorpus>>
## Metadata: corpus specific: 1, document level (indexed): 0
## Content: documents: 2
## [1] big data mining analytics components strategic decision making stephan kudyba foreword thomas da
## [2] big data mining analytics components strategic decision making
myTdm <- TermDocumentMatrix(myCorpus,control = list(wordLengths=c(2,Inf)))</pre>
m <- as.matrix(myTdm)</pre>
freq <- sort(rowSums(m),decreasing = T)</pre>
```

Word Cloud

