Text Mining 1: Indexing and Querying Text

300958 Social Web Analysis

Week 5 Lab Solutions

• Examine the help page for sort and work out how to obtain the top 20 occurring words from the table.

```
sort(word.table, decreasing=TRUE)[1:20]
```

• To perform each of these tasks, tm provides the functions removeNumbers, removePunctuation, stripWhitespace, tolower, removeWords and stemDocument and the application function tm_map. Use your knowledge of R, the help pages and your favourite Web search engine to work out how to perform the six tasks, then implement them on our corpus. You can examine the changes in the corpus by printing the contents of the first document using tweet.corpust[1]. That: tm_map applies a function to all documents in th tm_map help page.

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ullet Compute the weighted document term matrix tweet. weighted matrix containing the values of $w_{d,t}.$

```
N = nrow(tweet.matrix)
IDF = log(N/colSums(tweet.matrix > 0))
TF = log(tweet.matrix + 1)
tweet.weighted.matrix = TF %*% diag(IDF)
```

• Sum the weights in tweet. weighted. matrix to obtain an overall weight for each term.

```
w = colSums(tweet.weighted.matrix)
```

• Locate the position of the top 20 words, according to the overall word weight. Use the vector <code>colnames(tweet.matrix)</code> to locate the word names.

```
o = order(w, decreasing = TRUE)[1:20]
colnames(tweet.matrix)[o]
```

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