

Frankenstein Wordcloud

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Abstract

This PDF will contain a wordcloud and title of the book 'Alice in Wonderland' by Lewis Carroll.

Alice in Wonderland

1 packages

This section will contain the packages which will then be used to load 'Alice in Wonderland', manipulate string and form wordclouds.

```
package<-c('dplyr')
library(tidytext)
library(tm)

## Loading required package: NLP

library(wordcloud)

## Loading required package: RColorBrewer

library(stringr)
library(dplyr)

##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##   filter, lag
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library(knitr)
library(gutenbergr)
```

The first step is to determine the id of Alice in Wonderland:

```

gutenberg_works()%>%
  select(gutenberg_id,title,author)%>%
  filter(author=='Carroll, Lewis')

## # A tibble: 18 x 3
##   gutenberg_id
##   <int>
## 1         11
## 2         12
## 3         13
## 4        620
## 5        651
## 6       4763
## 7      19002
## 8      28696
## 9      28885
## 10     29042
## 11     29888
## 12     33582
## 13     35497
## 14     35535
## 15     36308
## 16     38065
## 17     48630
## 18     48795
## # ... with 2 more variables: title <chr>, author <chr>

```

In the resulting tibble from the code above, one can pick out the id of Alice; 11.

2 Chapter 1

Here I want to isolate the 'chapter 1' block of text

```

library(stringr)
df <- gutenberg_download(11)

## Determining mirror for Project Gutenberg from http://www.gutenberg.org/robot/harvest
## Using mirror http://aleph.gutenberg.org

head(df[str_detect(df$text, '^CHAPTER'),],n=1)$text

## [1] "CHAPTER I. Down the Rabbit-Hole"

```

3 The Wordcloud

Next the wordcloud package will be used to form a wordcloud

```
words_df<-df%>%
  unnest_tokens(word,text)

words_df

## # A tibble: 26,694 x 2
##   gutenbergs_id      word
##         <int>    <chr>
## 1             11  alice's
## 2             11 adventures
## 3             11      in
## 4             11 wonderland
## 5             11    lewis
## 6             11  carroll
## 7             11     the
## 8             11 millennium
## 9             11  fulcrum
## 10            11  edition
## # ... with 26,684 more rows
```

Using dplyr, we can remove stop words and insignificant

```
words_df<-words_df%>%
  filter(!(word %in% stop_words$word))
words_free <- words_df%>%
  group_by(word)%>%
  summarise(count = n())%>%
  arrange(-count)

wordcloud(words_free$word, words_free$count, min.freq = 25)
```

