

Assignment 10 - Sentiment Analysis

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1 Load libraries

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```
knitr::opts_chunk$set(echo = TRUE)
knitr::write_bib(c("knitr", "stringr"), "", width = 60)

## @Manual{R-knitr,
##   title = {knitr: A General-Purpose Package for Dynamic
##     Report Generation in R},
##   author = {Yihui Xie},
##   year = {2022},
##   note = {R package version 1.40},
##   url = {https://yihui.org/knitr/},
## }
##
## @Manual{R-stringr,
##   title = {stringr: Simple, Consistent Wrappers for Common
##     String Operations},
##   author = {Hadley Wickham},
##   year = {2022},
##   note = {R package version 1.4.1},
##   url = {https://CRAN.R-project.org/package=stringr},
## }
##
## @Book{knitr2015,
##   title = {Dynamic Documents with {R} and knitr},
##   author = {Yihui Xie},
##   publisher = {Chapman and Hall/CRC},
##   address = {Boca Raton, Florida},
##   year = {2015},
##   edition = {2nd},
##   note = {ISBN 978-1498716963},
##   url = {https://yihui.org/knitr/},
## }
##
```

```
## @InCollection{knitr2014,
##   booktitle = {Implementing Reproducible Computational
##     Research},
##   editor = {Victoria Stodden and Friedrich Leisch and Roger
##     D. Peng},
##   title = {knitr: A Comprehensive Tool for Reproducible
##     Research in {R}},
##   author = {Yihui Xie},
##   publisher = {Chapman and Hall/CRC},
##   year = {2014},
##   note = {ISBN 978-1466561595},
##   url = {http://www.crcpress.com/product/isbn/
##     9781466561595},
## }
```

```
library(tidytext)
library(textdata)
```

```
?{R-base, title = {R: A Language and Environment for Statistical Computing}, author = {{R Core Team}},
organization = {R Foundation for Statistical Computing}, address = {Vienna, Austria}, year = {2016}, url
= {https://www.R-project.org/}, }
```

```
lexicons <- c('bing', 'afinn', 'loughran', 'nrc')
for (lex in lexicons) {
  print(paste0("lexicon: ", lex))
  print(get_sentiments(lex))
}
```

```
## [1] "lexicon: bing"
## # A tibble: 6,786 x 2
##   word      sentiment
##   <chr>      <chr>
## 1 2-faces    negative
## 2 abnormal  negative
## 3 abolish   negative
## 4 abominable negative
## 5 abominably negative
## 6 abominate  negative
## 7 abomination negative
## 8 abort      negative
## 9 aborted    negative
## 10 aborts     negative
## # ... with 6,776 more rows
## [1] "lexicon: afinn"
## # A tibble: 2,477 x 2
##   word      value
##   <chr>    <dbl>
## 1 abandon    -2
## 2 abandoned  -2
## 3 abandons   -2
## 4 abducted   -2
## 5 abduction  -2
## 6 abductions -2
```

```

## 7 abhor -3
## 8 abhorred -3
## 9 abhorrent -3
## 10 abhors -3
## # ... with 2,467 more rows
## [1] "lexicon: loughran"
## # A tibble: 4,150 x 2
##   word      sentiment
##   <chr>    <chr>
## 1 abandon negative
## 2 abandoned negative
## 3 abandoning negative
## 4 abandonment negative
## 5 abandonments negative
## 6 abandons negative
## 7 abdicated negative
## 8 abdicates negative
## 9 abdicating negative
## 10 abdication negative
## # ... with 4,140 more rows
## [1] "lexicon: nrc"
## # A tibble: 13,872 x 2
##   word      sentiment
##   <chr>    <chr>
## 1 abacus trust
## 2 abandon fear
## 3 abandon negative
## 4 abandon sadness
## 5 abandoned anger
## 6 abandoned fear
## 7 abandoned negative
## 8 abandoned sadness
## 9 abandonment anger
## 10 abandonment fear
## # ... with 13,862 more rows

```