# Vulgar language on the web across World Englishes - Part 2: data processing

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# 1 Intro

This document shows an analysis that was performed with the aim of finding differences in swearing across geographically distinct varieties of English around the world based on the GloWbE corpus.

install packages

```
# install packages
install.packages("tidyverse")
install.packages("quanteda")
install.packages("here")
install.packages("udpipe")
install.packages("future")
install.packages("furr")
install.packages("stringi")
install.packages("parallel")
install.packages("usethis")
install.packages("data.table")
devtools::install_github("jimjam-slam/ggflags")
install.packages("ggflags")
```

load packages and set options

```
# load packages
library(data.table)
library(tidyverse)
library(quanteda)
library(stringi)
library(parallel)
library(usethis)
library(data.table)
library(ggflags)
```

# 2 data preparation

# 3 loading data

## 2:

```
raw
# paths to results
cdfs <- list.files(here::here("test"), pattern = "dfc.rda", full.names = T)</pre>
# load tables
lapply(cdfs, function(x) {
 x <- readRDS(x)
  }) -> lcdfs
# combine into a single df
data.table::rbindlist(lcdfs)
  # remove NAs
 dplyr::filter(txt != "") -> cdf
# clean
cdf %>%
  dplyr::mutate(sfl = stringr::str_remove_all(sfl, ".txt.*")) %>%
  # rename columns
  dplyr::rename(corpus = crp,
                file = sfl,
                subfile = fl,
                rawtext = txt,
                cleantext = ctxt) -> df
# inspect clean dataframe
head(df)
##
         corpus subfile
                            file
##
         <char> <char>
                          <char>
## 1: Australia ##703 w_au_g01
## 2: Australia ##1000 w_au_g01
## 3: Australia ##1004 w_au_g01
## 4: Australia ##1100 w_au_g01
## 5: Australia ##1400 w_au_g01
## 6: Australia ##1500 w_au_g01
##
##
## 1:
```

being as a source of stress . Most of us typically perceive stress as a ... In terms of losing weig

```
## 3: ##1004 <h> Question : Can identical twins ever be boy/girl twins ?  In some rare cases , ident
up of a girl is XX . An XO baby is outwardly a girl , but her cells only have one copy of the X chromos
question: What are chromosomes?  Chromosomes can also be thought of as similar to a ball of wool -
chromosome is also responsible for differences in female identicals . When a female foetus is created ;
20 cells ) . If by chance one identical twin ' silences ' the X chromosome that came from Dad 's sperm
identical . This is due to something called 'chimerism' - when an individual is composed of 2 genetic
identical twins are chimeras; the rise in IVF is considered to be a contributing factor. A report has
copy , but some should be available as electronic versions -- it depends on what type of service the re
87  Department of Psychology USA . This e-mail address is being protected from spambots . You need J
sex twin sample . The data were examined with reference to psychobiological and evolutionary perspectiv
2 months before the co-twin 's death , 1-2 months following the co-twin 's death and currently . A Grie
2 months following the loss , and currently . Information on physical symptoms was available from the S
twin (retrospective twin group); a second @ @ @ @ @ @ @ @ @ @ . Consistent with psychobiological the
mail address is being protected from spambots . You need JavaScript enabled to view it  Contemporary
the mourner 's memory and emotions . A complementary perspective is offered by archetypal psychology ,
mail address is being protected from spambots . You need JavaScript enabled to view it  We @ @ @ @
26 . Department UK . This e-mail address is being protected from spambots . You need JavaScript ena
depth about their understanding and experience of twinship . Participants were selected who had a rich?
year study was based on individual interviews of over 200 bereaved MZ and DZ adult twins . Its purpose
authored another book Uniting Psychology and Biology: Integrative Perspectives on Human Development wh
third of the land mass . Yet when it comes time to doll out the money each year for the federal road bu
## 5:
good-reason Italian food can be found on the Croatian coast .  But because it has none of the hype to
season where prices are low , the weather is good , and you will find very few tourists roaming around
point , but no matter where you go in Buenos Aires , will you most likely turn to your travel companion
sized hole in your wallet . <h> Caribbean = Southern Thailand  A beautiful Thai beach on the island
## 6:
facing wall ( or North facing wall if in the Southern Hemisphere ) , which is painted black and made of
e glass - this is special glass which has a lower rate of heat transmission , similar in effect to doub
14 inches for brick , 12-18 for concrete , 8-12 " for adobe or other earth material and at least 6 inch
e glass for a Trombe wall . Do you have data ? Even with the latest , high-transmittance versions of th
potable @ @ @ @ @ @ @ @ @ . am considering all passive solar technologies , may mix with a micro phot
scaled: less water, less heat, less energy consumption. also looking for less complexity in activit
##
##
## 1:
## 3: question can identical twins ever be boy girl twins in some rare cases identical twins from an eg
## 4:
## 5:
## 6:
create summary table
df %>%
 dplyr::ungroup() %>%
 dplyr::mutate(# count number of words
   words = length(unlist(quanteda::tokenize_fastestword(cleantext))),
   # determine type of data (blog vs general web)
   type = dplyr::case_when(stringr::str_detect(file, "^w_") ~ "General Web",
                          TRUE ~ "Blog")) -> dfw
# save
```

```
#base::saveRDS(dfw, file = here::here("test", "glowbe.rda"))
# inspect
head(dfw)
```

```
##
         corpus subfile
                            file
##
         <char> <char>
                          <char>
## 1: Australia
                 ##703 w_au_g01
## 2: Australia ##1000 w_au_g01
## 3: Australia ##1004 w_au_g01
## 4: Australia ##1100 w_au_g01
## 5: Australia ##1400 w au g01
## 6: Australia ##1500 w_au_g01
##
##
## 1:
## 2:
```

being as a source of stress. Most of us typically perceive stress as a ... In terms of losing weig ## 3: ##1004 <h> Question : Can identical twins ever be boy/girl twins ? In some rare cases , ident up of a girl is XX . An XO baby is outwardly a girl , but her cells only have one copy of the X chromos question: What are chromosomes? Chromosomes can also be thought of as similar to a ball of wool chromosome is also responsible for differences in female identicals . When a female foetus is created ; 20 cells ) . If by chance one identical twin ' silences ' the X chromosome that came from Dad 's sperm identical . This is due to something called 'chimerism' - when an individual is composed of 2 genetic identical twins are chimeras; the rise in IVF is considered to be a contributing factor. A report has copy , but some should be available as electronic versions -- it depends on what type of service the re 87 Department of Psychology USA . This e-mail address is being protected from spambots . You need J sex twin sample . The data were examined with reference to psychobiological and evolutionary perspectiv 2 months before the co-twin 's death , 1-2 months following the co-twin 's death and currently . A Grie 2 months following the loss , and currently . Information on physical symptoms was available from the Stwin ( retrospective twin group ) ; a second @ @ @ @ @ @ @ @ @ @ . Consistent with psychobiological the mail address is being protected from spambots . You need JavaScript enabled to view it Contemporary the mourner 's memory and emotions . A complementary perspective is offered by archetypal psychology, mail address is being protected from spambots . You need JavaScript enabled to view it We @ @ @ @ 26 . Department UK . This e-mail address is being protected from spambots . You need JavaScript ena depth about their understanding and experience of twinship . Participants were selected who had a rich? year study was based on individual interviews of over 200 bereaved MZ and DZ adult twins . Its purpose analysis . <h> Question : Do you have any resources for twins who do n't get along with each other ? for twins who do n't get along with each other ? authored another book Uniting Psychology and Biology: Integrative Perspectives on Human Development wh

third of the land mass . Yet when it comes time to doll out the money each year for the federal road but ## 5:

good-reason Italian food can be found on the Croatian coast . But because it has none of the hype to season where prices are low, the weather is good, and you will find very few tourists roaming around point, but no matter where you go in Buenos Aires, will you most likely turn to your travel companion sized hole in your wallet. <h> Caribbean = Southern Thailand A beautiful Thai beach on the island ## 6:

facing wall ( or North facing wall if in the Southern Hemisphere ) , which is painted black and made of e glass - this is special glass which has a lower rate of heat transmission , similar in effect to doub 14 inches for brick , 12-18 for concrete , 8-12 " for adobe or other earth material and at least 6 inch e glass for a Trombe wall . Do you have data ? Even with the latest , high-transmittance versions of th potable @ @ @ @ @ @ @ @ @ @ . am considering all passive solar technologies , may mix with a micro phot scaled : less water , less heat , less energy consumption . also looking for less complexity in activity ##

```
##
## 1:
## 2:
## 3: question can identical twins ever be boy girl twins in some rare cases identical twins from an eg
## 4:
## 5:
## 6:
##
           words
                        type
##
           <int>
                      <char>
## 1: 1766216633 General Web
## 2: 1766216633 General Web
## 3: 1766216633 General Web
## 4: 1766216633 General Web
## 5: 1766216633 General Web
## 6: 1766216633 General Web
extract basic information
# info table
dfw %>%
  dplyr::group_by(corpus, file, subfile, type) %>%
  dplyr::summarise(tokens = sum(words)) -> glowbe_table
## `summarise()` has grouped output by 'corpus', 'file', 'subfile'. You can
## override using the `.groups` argument.
# save
#base::saveRDS(glowbe_table, file = here::here("test", "glowbe_table.rda"))
# inspect
head(glowbe_table)
## # A tibble: 6 x 5
## # Groups: corpus, file, subfile [6]
                        subfile type
##
     corpus
               file
                                                  tokens
##
     <chr>
               <chr>
                        <chr>
                                  <chr>
                                                   <dbl>
## 1 Australia w_au_g01 ##1000
                                 General Web 1766216633
## 2 Australia w_au_g01 ##100100 General Web 1766216633
## 3 Australia w_au_g01 ##100101 General Web 1766216633
## 4 Australia w_au_g01 ##100303 General Web 1766216633
## 5 Australia w_au_g01 ##1004
                                 General Web 1766216633
## 6 Australia w_au_g01 ##100400 General Web 1766216633
save and reload results
dfw <- base::readRDS(file = here::here("test", "glowbe.rda"))</pre>
glowbe_table <- base::readRDS(file = here::here("test", "glowbe_table.rda"))</pre>
```

## 4 load kwics

```
# paths to results
kwics <- list.files(here::here("test"), pattern = "_kwic_results.rda", full.names = T)
# inspect
kwics</pre>
```

## [1] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Australia\_kwic\_result ## [2] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Bangladesh\_kwic\_result

```
##
    [3] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Canada_kwic_results.r
##
    [4] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/GBBlog_kwic_results.r
    [5] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/GBGeneral_kwic_result
##
    [6] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Ghana_kwic_results.rd
##
##
    [7] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/HongKong_kwic_results
       "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/India kwic results.rd
##
       "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Ireland_kwic_results.
##
  [10] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Jamaica_kwic_results.
##
##
   Γ117
        "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Kenya_kwic_results.rd
        "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Malaysia_kwic_results
##
   [12]
   [13] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/NewZealand_kwic_resul
        "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Nigeria_kwic_results..
   [14]
##
       "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Pakistan_kwic_results
##
   [15]
   [16] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Philippines_kwic_resu
  [17]
        "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Singapore_kwic_result
  [18]
        "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/SouthAfrica_kwic_resu
   [19]
       "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/SriLanka_kwic_results
   [20] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/Tanzania_kwic_results
   [21] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/USBlog_kwic_results.re
   [22] "C:/Users/Martin/OneDrive/Dokumente/University/UQ/VulgarityWorldWide/test/USGeneral_kwic_result
```

process kwics and combine into a single dataframe

```
# load tables
lapply(kwics, function(x) {
    x <- readRDS(x)
    }) -> kwicdfs
# combine into a single df
data.table::rbindlist(kwicdfs) -> kwicdf
# inspect
head(kwicdf)
```

```
##
      docname
                                    pre keyword
                                                                                post
##
       <char>
                                          <char>
                                                                              <char>
## 1:
       text14
                                                             and a shovel also and
                   but to take a large
                                             hoe
## 2:
       text19
                 get within a monkey s
                                            fart
                                                       of being a musician working
## 3:
                                                             of water in an indian
       text20
                    when i first saw a
                                             jug
  4:
       text20
                  10 59 am cleaning ur
                                            butt
                                                           with water is much more
## 5:
       text20
                    do the same to you
                                            butt smearing is not cleaning washing
##
       text20 shelly do you wash your
                                            butt
                                                            with your hands do you
##
                                                                                pattern
##
                                                                                 <fctr>
                                                         \\bh[o0øöóõ][e3€ëéê][zs]*\\b
## 1:
## 2:
                                                           \\bfart(s|z|ing|in|ed)*\\b
## 3:
                                                                 \\bjug[g]*[s5$\sz]*\\b
## 4: \b[b8f3][u\mu\ddot{u}\hat{u}][t7+\dagger][t7+\dagger][sz]*(face|head|wit|whipe|hole|h)*[h1]*[sz]*<math>\b]
## 5: \\b[b8f3][u恖û][t7+†][t7+†][sz]*(face|head|wit|whipe|hole|h)*[h1]*[sz]*\\b
  6: \\b[b8ß3][uµüûû][t7+†][t7+†][sz]*(face|head|wit|whipe|hole|h)*[h1]*[sz]*\\b
##
##
         corpus
##
         <char>
## 1: Australia
## 2: Australia
## 3: Australia
## 4: Australia
## 5: Australia
```

#### 4.1 Lemma

annotate lemmas

```
kwicdf_annotated <- kwicdf %>%
 dplyr::mutate(lemma = dplyr::case_when(pattern == "\\b(dumb|stupid|lazy|worthless|useless|brain|dead
                                     pattern == "\\b(dumb|stupid|lazy|worthless|useless|brain|dead|
   pattern == "\b[8\beta][i1!|\dii]+[a\beta\adaia]*[t7+\dip][c\cdots(][h](es|ez|ing|ed)*\b" ~ "bitch",
   pattern == "\\b[8\beta][a\beta\a\a\a|[s5\beta][t7+\pi][a\beta\a\a\a|r[d][o]*(s|z)*\\b" ~ "bastard",
   pattern == "\\b[8ß|3][e3€ëéê][a@4äáå]n[e3€ëéê]r(s|z)*\\b" ~ "beaner",
   pattern == "\\b[8ß|3][e3€ëéê]l1[e3€ëéê]nd(s|z)*\\b" ~ "bellend",
               pattern == "\\bbl[o0øöóõ]{2,}d[iy¥](ed)*\\b" ~ "bloody",
   pattern == "\\bboner[s]*\\b" ~ "boner",
   pattern == "\b[8ß|3][00\phi\"{o}\'{o}\~{o}]n[k|<\{(](in|ing)*\b" ~ "bonk",
   pattern == "\\b[8f3][u|恣û]gg[e3€ëéê]r(ing|s|z)*\\b" ~ "bugger",
   pattern == "\\b[b8ß|3][u|µüúû]ll[s5$$z]h[1!|ïíì]+[t7+†]*\\b" ~ "bullshit",
   pattern == "\\b(god)*damn\\b" ~ "damn",
   pattern == "\\bdarki(es)*\\b" ~ "darkie",
   pattern == "\\b(bull)*d[iy]*ke(s|z)*\\b" ~ "dike",
   pattern == "\bdildo(s|z)*\b" ~ "dildo",
   pattern == "\bdork(s|z)*\b" ~ "dork",
   pattern == "\\beff(ing|in|ed|d)*[-._+ ]*[(you|up|off)]*\\b" ~ "eff",
   pattern == "\\bfann(y|ies)+\\b" ~ "fanny",
   pattern == "\\bfart(s|z|ing|in|ed)*\\b" ~ "fart",
   pattern == "\\bfrig(g|gin|ging|ged|gs)*\\b" ~ "frig",
   pattern == "\\b(cluster|head|mother|motha|mutha|mada|cock|mom|mum|daddy|father|sister|brother)*[f=f
   pattern == "\\bf[-._+](me|you|it|this|that|the|these|those|him|her|us|them)+\\b" ~ "fuck",
   pattern == "\\b[f=f][c¢(*k<{(u\mu\ddot{u}\hat{u}*)+\b" ~ "fuck",}
   pattern == "\\bgash\\b" ~ "gash",
   pattern == "\\bg[o]*ok(s|z)*\\b" ~ "gook",
   pattern == "\\bidiot(s|z)*\\b" ~ "idiot",
   pattern == "\\bjacka[s5$\$z][s5$\$z]\\b" ~ "jackass",
   pattern == "\\bjap[zs]*\\b" ~ "jap",
   pattern == "\\bjerk(s|z|in|ing|ed)*\\b" ~ "jerk",
   pattern == "\\bji[s5$\$z][s5$\$z]+\\b" ~ "jiss",
   pattern == "\\bjug[g]*[s5$$z]*\\b" ~ "jug",
   pattern == "\b[(dip)]*[s5$\$z]h[1!|"ii]+[t7+†]*(ing|e|in|er|a|ed|ers|az|s|z)*\b" ~ "shit",
   pattern == "\\bktfo\\b" ~ "online",
   pattern == "\\bstfu\\b" ~ "online",
   pattern == "\\bgtfo\\b" ~ "online",
   pattern == "\\bngaf\\b" ~ "online",
   pattern == "\\bdgaf\\b" ~ "online",
   pattern == "\\bffs\\b" ~ "online",
   pattern == "\\bfml\\b" ~ "online",
   pattern == "\\bomfg\\b" ~ "online",
   pattern == "\\baf\\b" ~ "online",
   pattern == "\\btf\\b" ~ "online",
```

```
pattern == "\\bwtf\\b" ~ "online",
pattern == "\\blmao\\b" ~ "online",
pattern == "\\blmfao\\b" ~ "online",
pattern == "\\brofl\\b" ~ "online",
pattern == "\\bch[i]*nk[zs]*\\b" ~ "chink",
pattern == "\\bcoon[zs]*\\b" ~ "coon",
pattern == "\\b[bull]*crap(ping|ped|s|z|pin)*\\b" ~ "crap",
pattern == "\\bcum(ming)*\\b" ~ "cum",
pattern == "\bc[00\phi\"{o}\~{o}\~{o}][c¢@] + [(k|<\{(|x]+(suck|sak|suk)*[k]*(er|ers|a|az|as)*\b" ~ "cock",
pattern == "\\b[kc¢@(][u|µüúû]*nt[zs]*\\b" ~ "cunt",
pattern == "\\b[d][1!|ïiî][c¢@()[xk|<{(][(head)]*[zs]*\\b" ~ "dick",</pre>
pattern == "\\b[f|=f][a@4äáåe]g[g]*[ioa]*[t]*[zs]*\\b" ~ "fag(got)",
pattern == "\\bh[o0øöóõ][e3€ëéê][zs]*\\b" ~ "hoe",
pattern == "\\bh[o0øöóõ]r[e3€ëéê]*[zs]*\\b" ~ "whore",
pattern == "\\b[k|<{(][i1!ïíìy][k|<{(][e3€ëéê][zs]*\\b" ~ "kike",
pattern == "\\bn[i1!ïíì]gg[e3€ëéê|@a4äáå][r]*[zs]*\\b" ~ "nigger",
pattern == "\\bknob[(head)]*[zs]*\\b" ~ "knob",
pattern == "\\blesbo[sz]*\\b" ~ "lesbo",
pattern == "\\bming[(a|er)]+(s|z)*\\b" ~ "minger",
pattern == "\\bm[o|u]ron(ic|s|z)*\\b" ~ "moron",
pattern == "\\bmuff\\b" ~ "muff",
pattern == "\\bnonce\\b" ~ "nonce",
pattern == "\\bnympho\\w*\\b" ~ "nympho",
pattern == "\\bp[e3ۑéê]ck[ae]?[rs]*\\b" ~ "pecker",
pattern == "\\bp[e3ۑéê]do[philf]*[e]*[zs]*\\b" ~ "pedo",
pattern == "\\bpik(i|is|ey|ies|eys|eyz|iez|iz)+\\b" ~ "pikey",
pattern == "\\bpimp(s|ing|in|z|ed)*\\b" ~ "pimp",
pattern == "\\bp[i1!|\"ii] [s5\$z] [s5\$]+(in|ing|er|a|ers|erz)*\\b" ~ "piss",
pattern == "\\bpooft(er|ers|as|az)+\\b" ~ "poofter",
pattern == "\\bprick[zs]*\\b" ~ "prick",
pattern == "\\bpuk[e]*(s|z|ing|ed)*\\b" ~ "puke",
pattern == "\\bqu[e]+[a]*f(s|z|ing|ed)*\\b" ~ "queef",
pattern == "\\bscr[e]+w(ing|ed|s|z)*\\b" ~ "screw",
pattern == "\\bshag(ging|gin|ged)*\\b" ~ "shag",
pattern == "\\bskank[yzs]*\\b" ~ "skank",
pattern == "\\bslag[zs]*\\b" ~ "slag" ,
pattern == "\\b[s5$$z]1[u恣û][t7+†](i|y)*[zs]*\\b" ~ "slut",
pattern == "\\bsod[d]*[sz]*(ing)*\\b" ~ "sod",
pattern == "\\bspast(ic|ics|icz)*\\b" ~ "spastic",
pattern == "\\bretard[zs]*\\b" ~ "retard",
pattern == "\\btit[t]*(i|ies|ay|ays|ayz)*\\b" ~ "tits",
pattern == "\\btosser[sz]*\\b" ~ "tosser",
pattern == "\\btr[a@4äáå]nn(y|ies|iez)+\\b" ~ "tranny",
pattern == "\\bturd[sz]*\\b" ~ "turd",
pattern == "\bw[a@4\ddot{a}]n[k]<{(](z|er|ers|ing|az|a|ed)*\b" ~ "wank",}
pattern == "\\b(cam|man|m)*wh[o0øööõ]?r[e3€ëéê]*(d|s|z|ing)*\\b" ~ "whore",
 pattern == "\b[s5\$\Sz][-._+]*[h][-._+]*[i1!|iii]+[-._+]*[t7+\dagger][e3\ensuremeter] * "h][-._+]*[i1!|iii]+[-._+]*[t7+\dagger][e3\ensuremeter] * "h][e3\ensuremeter] * "h][e3\ensuremeter]
pattern == "\\b[a@4äáå][-._+]*[s5$\$z]\\b" ~ "ass",
 pattern ==  "\b[f=f][c \phi(*k<{(u\mu\ddot{u}u\hat{u}*]+(ing|er|a|ed|ers|az)*\\b" ~ "fuck", }
```

```
pattern == "\\bf\\b" ~ "fuck",
    pattern == "\\beff(ing|in|ed|d)*\\b" ~ "eff",
T ~ pattern))
# inspect
names(table(kwicdf_annotated$lemma))
    [1] "arse(hole)" "ass(hole)"
                                    "bastard"
                                                  "bitch"
                                                                "bloody"
##
   [6] "bollocks"
                                    "boobs"
                                                  "bullshit"
                                                                "butt(hole)"
                      "boner"
## [11] "chink"
                      "cock"
                                    "coon"
                                                  "crap"
                                                                "cum"
## [16] "cunt"
                                                  "dick"
                                    "darkie"
                                                                "dike"
                      "damn"
## [21] "dildo"
                                    "eff"
                      "dork"
                                                  "fag(got)"
                                                               "fannv"
## [26] "fart"
                      "frig"
                                    "fuck"
                                                  "gash"
                                                                "gook"
## [31] "hoe"
                      "idiot"
                                    "jackass"
                                                  "jap"
                                                                "jerk"
                                    "kike"
                                                               "lesbo"
## [36] "jiss"
                                                  "knob"
                      "jug"
## [41] "minger"
                      "moron"
                                    "muff"
                                                               "nonce"
                                                  "nigger"
## [46] "nympho"
                      "online"
                                    "pecker"
                                                  "pedo"
                                                               "pikey"
## [51] "pimp"
                      "piss"
                                    "poofter"
                                                  "prick"
                                                                "puke"
                                                  "shag"
## [56] "pussy"
                      "queef"
                                    "retard"
                                                               "shit"
## [61] "skank"
                      "slag"
                                    "slut"
                                                  "sod"
                                                               "spastic"
## [66] "tits"
                      "tosser"
                                    "tranny"
                                                  "turd"
                                                                "twat"
## [71] "wank"
                      "whore"
check kwics
              dplyr::filter(stringr::str_detect(keyword, "\\bjerk"))
#kwicdf %>%
names(table(kwicdf_annotated$keyword))
```

## 5 Clean kwic

```
kwicdf clean <- kwicdf annotated %>%
  # Retain rows where 'lemma' is 'hoe' and 'pre' ends with specified phrases
  filter(!(lemma == "hoe" & !str_detect(pre, "(such a( \\w+)?|other|is a|that( \\w+)?)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # Remove rows where 'keyword' contains specific unwanted patterns
  filter(!str_detect(keyword, "fak(r|er|ing|ers|ed|e)+")) %>%
  filter(!str_detect(keyword, "fk(r|er|ing|ers|ed|e)+")) %>%
  filter(!str_detect(keyword, "\\w\\+f$")) %>%
  filter(!str_detect(keyword, "n\\|f")) %>%
  filter(!str_detect(keyword, "^\\+f$")) %>%
  filter(!str_detect(keyword, "=(x|a|r|v|c|k|f)")) %>%
  filter(!str detect(keyword, "(x|a|r|v|c|k|f)=")) %>%
  filter(!str_detect(keyword, "feg(i|o)")) %>%
  filter(!str_detect(keyword, "^feek.*")) %>%
  filter(!str_detect(keyword, "(x|a|r|v|c|k|f)\\+")) %>%
  filter(!str_detect(keyword, "\\+(x|a|r|v|c|k|f)")) %>%
  dplyr::filter(!str_detect(keyword, "^\\$")) %>%
  dplyr::filter(!str_detect(keyword, "\\d{3}")) %>%
  dplyr::filter(!str_detect(keyword, "\\d{2}=")) %>%
  dplyr::filter(!str_detect(keyword, "fag(a|o)+")) %>%
  dplyr::filter(!str_detect(keyword, "fauk\\w*")) %>%
  dplyr::filter(!str_detect(keyword, "hoess")) %>%
```

```
dplyr::filter(!str_detect(keyword, "z=u")) %>%
  dplyr::filter(!str_detect(keyword, "\\+jug")) %>%
  dplyr::filter(!str_detect(keyword, "2=u")) %>%
  dplyr::filter(!str_detect(keyword, "b=ok")) %>%
  dplyr::filter(!str_detect(keyword, "st=ok")) %>%
  dplyr::filter(!str_detect(keyword, "stat=u")) %>%
  dplyr::filter(!str_detect(keyword, "t=0k")) %>%
  dplyr::filter(!str_detect(keyword, "^feak\\*")) %>%
  dplyr::filter(!str_detect(keyword, "^fc+$")) %>%
  dplyr::filter(!str_detect(keyword, "^f[c]+a.*$")) %>%
  dplyr::filter(!str_detect(keyword, "^fauc.*$")) %>%
  dplyr::filter(!str_detect(keyword, "^f\\$\\d+$"))
kwicdf_clean <- kwicdf_clean %>%
  # Remove rows where 'lemma' is 'jerk' and 'pre' ends with 'knee' or 'chest'
  filter(!(lemma == "jerk" & str_detect(pre, "(knee|chest)$"))) %>%
  # Retain rows where 'lemma' is 'jerk' and:
  # - 'post' starts with 'off', or
  # - 'pre' ends with 'this', 'that', 'such a', or 'is a'
  filter(!(lemma == "jerk" &
           !(str_detect(post, "^off\\b") | str_detect(pre, "(this|that|such a|is a)\\b$"))))
kwicdf_clean <- kwicdf_clean %>%
  # Retain rows where 'lemma' is 'eff' and 'post' starts with 'you', 'it', 'off', or 'up'
  filter(!(lemma == "eff" & !str_detect(post, "^(you|it|off|up)")))
kwicdf_clean <- kwicdf_clean %>%
  # Remove rows where 'lemma' is 'f' unless 'post' starts with specified pronouns or similar words or p
  filter(!(keyword == "f" & !str_detect(post, "^(king|me|you|it|this|that|these|those|him|her|us|them)\
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'lemma' is 'crap' and 'pre' ends with specified phrases
  filter(!(lemma == "crap" & str_detect(pre, "(metal|poker|roulette)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # Remove rows where 'lemma' is 'dyke' and 'pre' does not end with specified phrases
  filter(!(lemma == "dyke" & !str_detect(pre, "\\b(a|like|butch|bull|all|fags|as|fucking|club)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'lemma' is 'faggot' and 'pre' ends with specified phrases
  filter(!(keyword == "faggot" & str_detect(post, "(bearer)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  {\it\# Remove\ rows\ where\ 'keyword'\ is\ 'fag'\ and\ 'pre'\ ends\ with\ specified\ phrases}
  filter(!(keyword == "fags" & str_detect(pre, "\\b(of|and|buy|the|few|candy)\\b$") | str_detect(post,
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'keyword' is 'fk' and 'pre' ends with specified phrases
  filter(!(keyword == "fk" & str_detect(pre, "(bryne)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
```

```
# remove rows where 'keyword' is 'jiss' and 'pre' ends with specified phrases
  filter(!(keyword == "jizz" & str_detect(pre, "\\b(dns)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'keyword' is 'fu' and 'pre' ends with specified phrases
  filter(!(keyword == "fu" & str_detect(pre, "(k(ou)ng)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # Remove rows where 'keyword' is 'knob' and 'post' does not end with specified phrases
  filter(!(lemma == "knob" & !str_detect(post, "^\\b(head[s]?)\\b")))
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'keyword' is 'pecker' and 'pre' ends with specified phrases
  filter(!(keyword == "pecker" & str detect(pre, "\\b(a|wood|of|so)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # Retain rows where 'lemma' is 'sod' and 'pre' ends with a xxx xxx
  filter(!(lemma == "sod" & !str_detect(pre, "\\ba[n]{0,1}( \\w+)?( \\w+)?$")))
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'keyword' is 'sodd' and 'post' starts with specified phrases
  filter(!(keyword == "sodd" & str_detect(post, "^\\b(s)\\b")))
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'keyword' is 'sodd' and 'pre' ends with specified phrases
  filter(!(keyword == "sods" & str_detect(pre, "\\band\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # Remove rows where 'keyword' is 'tf' and 'pre' does not end with specified phrases
  filter(!(lemma == "tf" & !str_detect(pre, "\\b(how)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # Retain rows where 'keyword' is 'wanka' and 'pre' ends with specified phrases
  filter(!(keyword == "wanka" & !str_detect(pre, "(such a( \\w+)?|other|is a|that( \\w+)?)\\b$")))
kwicdf_clean <- kwicdf_clean %>%
  # remove rows where 'keyword' is 'whor' and 'pre' ends with specified phrases
  filter(!(keyword == "whor" & str_detect(pre, "\\b(casteism)\\b$")))
# inspect
kwicdf_clean[which(kwicdf_clean$keyword == "whrs"),]
##
          docname
                                                                pre keyword
##
           <char>
                                                             <char> <char>
## 1: text50260
                                            low waist to hip ration
                                                                       whrs
## 2: text134941
                                       women have much lower facial
                                                                       whrs
## 3: text134941
                                   of more aggressive higher facial
                                                                       whrs
## 4: text15331
                                        headlines and claims to the
                                                                       whrs
## 5: text15331
                                  initially persisted in using some
                                                                       whrs
## 6: text15331
                                          in another case where the
                                                                       whrs
## 7: text15331
                                              call went out for the
                                                                       whrs
## 8: text15331
                                           fap claim a good quality
                                                                       whrs
## 9: text29164
                         the weathertight homes resolution service
                                                                       whrs
## 10: text29165
                                         reports the purpose of the
                                                                       whrs
```

```
## 11:
       text39061
                          the weathertight homes resolution services
                                                                          whrs
## 12:
        text39061
                                                                          whrs
                                              lodge a claim under the
## 13:
        text42373
                                building surveyors council staff and
                                                                          whrs
## 14:
        text42373
                                       failure around 95 of eligible
                                                                          whrs
## 15:
        text42373
                                            history to emerge in the
                                                                          whrs
## 16:
        text42373
                                                                          whrs
                                               lodge a claim with the
## 17:
        text42865
                           of weathertight homes resolution services
                                                                          whrs
## 18:
                            a weathertight homes resolution services
        text42865
                                                                          whrs
## 19:
        text53326
                                              of lodging the claim or
                                                                          whrs
## 20:
        text53326
                                              or have been subject to
                                                                          whrs
## 21:
        text53326
                           the weathertight homes resolution service
                                                                          whrs
## 22:
        text53326
                             1 weathertight homes resolution service
                                                                          whrs
## 23:
        text53326
                                   homes resolution service whrs the
                                                                          whrs
## 24:
        text53326
                                            arrive at a decision the
                                                                          whrs
## 25:
        text53326
                                                the time of seeking a
                                                                          whrs
## 26:
        text53326
                                            be quicker with both the
                                                                          whrs
## 27:
        text53326
                                                cons of the court and
                                                                          whrs
## 28:
        text53326
                                          noted 1 when following the
                                                                          whrs
## 29:
        text53326
                                                 3 both the court and
                                                                          whrs
## 30:
        text53326
                           weathertight homes resolution service the
                                                                          whrs
## 31:
        text53326
                              delivers the potentially lowest return
                                                                          whrs
## 32:
        text53326
                                              duplex 2 units low cost
                                                                          whrs
## 33:
        text53326
                             associated claims processes contact the
                                                                          whrs
## 34:
        text53326 resolutions weathertightness issues identified by
                                                                          whrs
## 35:
        text53326
                                        resolution based solely on a
                                                                          whrs
## 36:
        text53326
                                                 to obtain a low cost
                                                                          whrs
## 37:
        text55320
                                               second one is that the
                                                                          whrs
## 38:
        text55321
                                                 into the realms of a
                                                                          whrs
## 39:
        text65266
                          the weathertight homes resolution services
                                                                          whrs
## 40:
        text78538
                                              or have been subject to
                                                                          whrs
## 41:
        text78539
                                              or have been subject to
                                                                          whrs
  42:
        text81418
                                         damage from water leaks the
                                                                          whrs
## 43:
        text81418
                                           on the processing of your
                                                                          whrs
##
  44:
        text81418
                                         claim in particular if your
                                                                          whrs
##
          docname
                                                                   pre keyword
                                             post
##
##
                                            <char>
##
    1:
         duke university researchers john graham
##
    2:
                              and do not have the
##
                    feel more powerful we propose
    4: weathertight homes resolution service and
##
    5:
                     assessor s reports which it
    6:
               assessor s report had recommended
##
   7:
                      assessor to return to site
##
    8:
                     assessor s report is needed
    9:
##
                           does not take away the
## 10:
                         act is to provide speedy
## 11:
                            act 2006 a leaky home
                           act we can arrange for
## 12:
## 13:
                assessors the experts were asked
## 14:
                          claims so far come from
## 15:
                         and the courts there has
## 16:
                       from the time the dwelling
## 17:
              decisions where the claim involved
```

```
## 18:
               decision where the claim involved
## 19:
                   application or a claim should
## 20:
             claims however properties that have
## 21:
                         or with the district or
## 22:
                      the whrs offers two claims
## 23:
                   offers two claims processes 1
## 24:
                         and wht path is claimed
## 25:
                   resolution the process may be
## 26:
                         and court paths you can
## 27:
                processes a the following points
## 28:
                             path to arrive at a
## 29:
               processes are often intervened by
##
  30:
                          offers a low cost path
        assessments affected homeowners who meet
## 31:
## 32:
                  assessments are not speedy and
## 33:
                  37 845 toolong wht resolutions
## 34:
            reports can progress to adjudication
## 35:
                         report is high risk the
## 36:
              assessment report and then contact
## 37:
                          assessor does n t work
## 38
           or other weathertightness report such
## 39:
                        act defines a leaky home
## 40:
                claims from that date properties
## 41:
                claims from that date properties
## 42:
                          can provide a means of
## 43:
                     claim in particular if your
##
  44:
                        claim is either going to
##
                                             post
##
                                                    pattern
                                                                 corpus
                                                                         lemma
##
                                                     <fctr>
                                                                 <char>
                                                                         <char>
##
    1: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b
                                                                 Canada
                                                                         whore
##
    2: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b
                                                             GB-General
                                                                          whore
##
    3: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b
                                                                          whore
   4: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
##
                                                                          whore
   5: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
   6: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
##
                                                                         whore
   7: \\b(cam|man|m)*wh[o0øöőo]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
   8: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
   9: \b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\b New Zealand
                                                                          whore
## 10: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
  11: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
  12: \b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\b New Zealand
                                                                          whore
  13: \b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\b New Zealand
                                                                          whore
  14: \\b(cam|man|m)*wh[o0¢öóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 15: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 16: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 17: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 18: \\b(cam|man|m)*wh[o0¢öóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 19: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 20: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 21: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 22: \\b(cam|man|m)*wh[o0øöõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                          whore
## 23: \\b(cam|man|m)*wh[o0¢öóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                         whore
## 24: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
```

```
## 25: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
## 26: \\b(cam|man|m)*wh[o0¢öóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 27: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
## 28: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 29: \b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\b New Zealand
## 30: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 31: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
## 32: \\b(cam|man|m)*wh[o0¢öóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 33: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 34: \\b(cam|man|m)*wh[o0¢öóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 35: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 36: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 37: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 38: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 39: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 40: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 41: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 42: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
## 43: \\b(cam|man|m)*wh[o0øöóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
## 44: \\b(cam|man|m)*wh[o0¢öóõ]?r[e3€ëéê]*(d|s|z|ing)*\\b New Zealand
                                                                        whore
##
                                                   pattern
                                                                corpus
                                                                        lemma
#names(table(kwicdf_clean$keyword))
Bulk exclusion after manual check
exclude <- c("af", "arsel", "arsel", "assle", "asslee", "azzl", "ba$turd$", "ba$turd$", "bolivares=u", "
kwicdf_clean <- kwicdf_clean %>%
  filter(!keyword %in% exclude)
```

# 6 Remove duplicate rows using dplyr

```
nrow(kwicdf_clean)
## [1] 466336
kwicdf_clean <- kwicdf_clean %>% dplyr::select(-pattern)
kwicdf_clean <- kwicdf_clean %>% dplyr::distinct()
nrow(kwicdf_clean)
## [1] 385133
check kwics
kwicdf_clean[which(kwicdf_clean$keyword == "jizz"),]
##
           docname
                                                    pre keyword
##
            <char>
                                                          <char>
                                                 <char>
##
                                        to be used as a
     1:
          text1614
                                                            jizz
##
     2:
         text10093
                            arrived in with the cheese
                                                            jizz
##
     3:
         text55615
                                 to 2 million makes me
                                                            jizz
##
                                 s every chance you ll
     4:
         text61854
                                                            jizz
##
         text62060
                    hebraphrenia and teased out brain
                                                            jizz
##
## 137: text129707 titty photographed with air drying
                                                            jizz
```

```
of his descendents through his
## 138: text154267
                                                            jizz
## 139: text157739
                                 be the same people to
                                                            jizz
## 140: text159743
                           ever answered the door with
                                                            jizz
## 141: text165352
                              you have a little odumbo
                                                            jizz
                                post
                                          corpus
                                                 lemma
##
                              <char>
                                          <char> <char>
##
     1: spittoon i think maybe that
                                       Australia
                                                    jiss
##
         leaving some kind of sweet
                                       Australia
                                                    jiss
##
     3:
               in my pants lol also
                                       Australia
                                                    jiss
##
     4:
           your balls inside out at
                                       Australia
                                                   jiss
##
                 which i m going to
                                       Australia
                                                   jiss
##
## 137:
         and therefore sort of sent US-General
                                                   jiss
           no the adam from genesis US-General
## 138:
                                                   jiss
## 139:
             all over this news and US-General
                                                   jiss
## 140:
              in his beard now that US-General
                                                    jiss
## 141:
             on it still your knees US-General
                                                   jiss
```

# 7 Check KWICs

```
kwicdf_clean %>% filter(corpus == "Malaysia", lemma == "online")
##
          docname
                                                pre keyword
##
           <char>
                                             <char>
                                                     <char>
##
                           but i somehow pity them
     1:
            text1
                                                         wtf
##
                            look up at others haha
          text289
                                                        wtf
##
     3:
          text289 halfway through the parade haha
                                                        wtf
##
          text289
                      utter any words anymore haha
                                                        wtf
##
     5:
          text290 and my different department lol
                                                        wtf
##
## 570: text43977
                          did a couple tracks with
                                                      lmfao
## 571: text44521
                           night with a nokia c301
                                                         wtf
## 572: text44521
                           then we were shooed off
                                                      lmfao
## 573: text44523
                               i had to go through
                                                       lmao
## 574: text44524
                   bro s girlfriend when suddenly
                                                      lmfao
##
                                  post
                                          corpus lemma
##
                                <char>
                                          <char> <char>
##
     1:
              are they your money and Malaysia online
##
     2:
              i guess they use nippon Malaysia online
##
         another rojak group not sure Malaysia online
     3:
##
     4:
            we decided to walk around Malaysia online
     5:
##
                this gadget is my new Malaysia online
##
## 570:
                and they are just far Malaysia online
                  and i tried so hard Malaysia online
## 572: because we support shaira mae Malaysia online
## 573:
                         i did n t get Malaysia online
## 574:
            strangers sat on my table Malaysia online
```

## 8 Save KWIC

```
base::saveRDS(kwicdf_clean, file = here::here("test", "kwic_results_clean.rda"))
```

# 9 Outro

#### sessionInfo()

```
## R version 4.4.2 (2024-10-31 ucrt)
## Platform: x86_64-w64-mingw32/x64
## Running under: Windows 11 x64 (build 26100)
## Matrix products: default
##
##
## locale:
## [1] LC_COLLATE=English_United States.utf8
## [2] LC_CTYPE=English_United States.utf8
## [3] LC_MONETARY=English_United States.utf8
## [4] LC_NUMERIC=C
## [5] LC_TIME=English_United States.utf8
## time zone: Australia/Brisbane
## tzcode source: internal
##
## attached base packages:
## [1] parallel stats
                           graphics grDevices utils
                                                         datasets methods
## [8] base
##
## other attached packages:
## [1] ggflags_0.0.4
                          usethis_3.1.0
                                                               here_1.0.1
                                            stringi_1.8.7
## [5] quanteda_4.2.0
                          lubridate_1.9.4
                                            forcats_1.0.0
                                                               stringr_1.5.1
## [9] dplyr_1.1.4
                          purrr_1.0.4
                                            readr_2.1.5
                                                               tidyr_1.3.1
## [13] tibble_3.2.1
                          ggplot2_3.5.1
                                            tidyverse_2.0.0
                                                               data.table_1.17.0
##
## loaded via a namespace (and not attached):
## [1] utf8_1.2.4
                          generics_0.1.3
                                            lattice_0.22-6
                                                               hms_1.1.3
## [5] digest_0.6.37
                          magrittr_2.0.3
                                            evaluate_1.0.3
                                                               grid_4.4.2
## [9] timechange_0.3.0 bookdown_0.42
                                            fastmap_1.2.0
                                                               rprojroot_2.0.4
## [13] Matrix_1.7-1
                          stopwords_2.3
                                            scales_1.3.0
                                                               cli_3.6.4
## [17] rlang_1.1.5
                          munsell_0.5.1
                                            withr_3.0.2
                                                               yaml_2.3.10
## [21] tools_4.4.2
                          tzdb_0.5.0
                                            colorspace_2.1-1 fastmatch_1.1-6
## [25] vctrs 0.6.5
                          R6 2.6.1
                                            lifecycle 1.0.4
                                                               fs 1.6.5
## [29] pkgconfig_2.0.3
                          pillar_1.10.1
                                            gtable_0.3.6
                                                               glue_1.8.0
## [33] Rcpp_1.0.14
                          xfun 0.52
                                            tidyselect_1.2.1 rstudioapi_0.17.1
## [37] knitr_1.50
                          htmltools_0.5.8.1 rmarkdown_2.29
                                                               compiler_4.4.2
```