qdap word_cor

You can't use qdap functions on a `Corpus` this way. Typically qdap functions will work on a `Corpus` if you use them instid `apply_as_df`, however, in this cas the internals of `word_cor` is different enough that it can't just be put inside `apply_as_df` without me making some changes to the function. Here I convert `alice` to a `data.frame` instead.

```r
pacman::p_install_gh("trinker/qdap")
```

```
## Downloading github repo trinker/qdap@master
## Installing qdap
## Skipping 4 packages ahead of CRAN: qdapDictionaries, qdapRegex, qdapTools, reports
## "C:/R/R-devel/bin/x64/R" --no-site-file --no-environ --no-save  \
##   --no-restore CMD INSTALL  \
##   "C:/Users/Tyler/AppData/Local/Temp/RtmpM3ACCl/devtools56039ea6970/trinker-qdap-1d74a18"  \
##   --library="C:/R/R-devel/library" --install-tests
##
## Reloading installed qdap
##
## Attaching package: 'qdap'
##
## The following objects are masked from 'package:tm':
##
##     as.DocumentTermMatrix, as.TermDocumentMatrix
##
## The following object is masked from 'package:NLP':
##
##     ngrams
##
## The following object is masked from 'package:base':
##
##     Filter
##
##
## The following packages were installed:
## qdap
```

```r
pacman::p_load(tm, qdap)

alice <- readRDS("alice.rda")

class(alice)
```

```
## [1] "VCorpus" "Corpus"
```

```r
dat <- sentSplit(as.data.frame(alice), "text")
```

```
## Warning in sentSplit(as.data.frame(alice), "text"): The following problems were detected:
## missing ending punctuation, non space after comma, containing digits
##
## *Consider running `check_text`
```

```
head(with(dat, freq_terms(text)))
```

```
##    WORD FREQ
## 1 the   1563
## 2 and   767
## 3 to    688
## 4 a     591
## 5 she   509
## 6 of    477
```

My confusion seems to be with what constitutes a `grouping.var`:

I think this will help.

```
dat$id <- qdapTools::id(dat)
with(dat, word_cor(text, word="the", r = .01))
```

```
## $the
##                 '               ''tis          'advance
##             0.027               0.062             0.018
##             'alice               'all              'and
##             0.035               0.061             0.098
##               'as              'back            'begin
##             0.069               0.035             0.035
##            'boots             'bring             'call
##             0.018               0.139             0.027
##             'chop          'consider          'crumbs
##             0.018               0.011             0.035
##             'dear             'drink            'drive
##             0.035               0.041             0.018
##              'eat            'either     'explanations
##             0.018               0.018             0.018
##            'first               'for            'found
##             0.052               0.032             0.021
##            'from              'fury             'give
##             0.070               0.035             0.011
##               'go            'hadn't            'have
##             0.013               0.018             0.011
##               'hm          'however              'i'd
##             0.018               0.018             0.027
##              'if               'in               'it
##             0.045               0.057             0.013
##             'just              'let            'let's
##             0.041               0.031             0.025
##           'likely            'lives           'living
##             0.018               0.018             0.018
##           'moral'               'my          'mystery
##             0.070               0.013             0.018
##             'nine              'now             'once
##             0.035               0.013             0.018
##               'or           'orange           'prizes
##             0.015               0.035             0.018
```

```
##      'really    'reeling       'same
##        0.011       0.018       0.018
##       'seals         'sh        'she
##        0.035       0.018       0.018
##       'she's    'silence     'soooop
##        0.011       0.013       0.052
##       'speak      'stand    'suppose
##        0.025       0.035       0.013
##        'take    'talking       'tell
##        0.013       0.018       0.011
##         'ten       'that     'that's
##        0.035       0.037       0.020
##         'the 'theyyou've      'this
##        0.049       0.018       0.011
##        'till        'tis       'turn
##        0.038       0.047       0.013
## 'twentyfour      'until         'w
##        0.052       0.018       0.018
##         'was    'where's      'why'
##        0.018       0.025       0.013
##        'will    'without     'write
##        0.018       0.052       0.052
##         'you     'you'll      'your
##        0.026       0.013       0.013
##            a       about       above
##        0.256       0.107       0.071
##      absence  acceptance    accident
##        0.087       0.018       0.086
## accidentally     account   accustomed
##        0.139       0.018       0.035
##       across         act    actually
##        0.067       0.139       0.035
##        added      adding   addressed
##        0.050       0.018       0.038
##      adjourn    adoption   advantage
##        0.035       0.035       0.111
##   adventures      advice    advisable
##        0.051       0.013       0.018
##    advisable'      after    aftertime
##        0.018       0.076       0.052
##        again     against         age
##        0.106       0.083       0.018
##          ago       agree         air
##        0.052       0.013       0.190
##        alice     alice's       alive
##        0.059       0.044       0.101
##          all        all'       allow
##        0.267       0.031       0.038
##        along along'catch     already
##        0.048       0.018       0.050
##         also alternately  altogether
##        0.025       0.018       0.025
##       always       among          an
##        0.047       0.048       0.020
```

```
##              ancient            and          anger
##                0.018          0.548          0.038
##               animal        animals        another
##                0.018          0.031          0.070
##          antipathies        anxious      anxiously
##                0.035          0.025          0.030
##                  any       anything       appealed
##                0.014          0.074          0.018
##               appear     appearance       appeared
##                0.025          0.018          0.087
##             applause           arch      archbishop
##                0.052          0.070          0.025
##               arches            are         argued
##                0.114          0.046          0.035
##            arguments arithmeticambition            arm
##                0.018          0.018          0.077
##              arminarm           arms         around
##                0.052          0.030          0.294
##             arranged        arrived             as
##                0.035          0.087          0.221
##                  ask        askance         asleep
##                0.012          0.018          0.067
##            assembled             at       atheling
##                0.074          0.280          0.018
##              attempt      attempted       attempts
##                0.035          0.018          0.052
##            attending        attends        audibly
##                0.011          0.070          0.018
##                avoid           away        awfully
##                0.035          0.167          0.018
##                axes'          axis'           baby
##                0.018          0.018          0.190
##              babythe           back          backs
##                0.070          0.244          0.104
##       backsomersault          baked       balanced
##                0.035          0.052          0.018
##                balls           bank          banks
##                0.052          0.086          0.018
##              bankthe           bark        barking
##                0.018          0.038          0.191
##                  bat         bawled             be
##                0.011          0.052          0.084
##                 beak           bear         beasts
##                0.052          0.062          0.062
##                 beat        beating      beautiful
##                0.079          0.013          0.034
##          beautifully         became        because
##                0.062          0.074          0.034
##               become       becoming           been
##                0.017          0.052          0.034
##               before          began          begin
##                0.132          0.182          0.022
##            beginning     beginning'         begins
##                0.037          0.035          0.018
```

```
##             begun              behind             being
##             0.028              0.097             0.113
##           believe            believed            belong
##             0.048              0.312             0.018
##           beloved               below              bent
##             0.035              0.061             0.018
##              beor             besides              best
##             0.018              0.081             0.062
##           between               bill'             birds
##             0.058              0.018             0.087
##               bit              blades            blasts
##             0.074              0.052             0.074
##              blew                blow             blown
##             0.074              0.123             0.018
##             blows                body              bone
##             0.035              0.099             0.018
##             bones                book             book'
##             0.052              0.032             0.062
##       bookshelves                both            bottle
##             0.018              0.021             0.072
##            bottom               bough             bound
##             0.018              0.018             0.018
##            bowing               boxed               boy
##             0.070              0.018             0.074
##            boyand            branches             brass
##             0.312              0.025             0.018
##   breadandbutter    breadandbutter'         breadknife
##             0.056              0.018             0.018
##             break              breath            breeze
##             0.038              0.053             0.052
##            bright          brightened             broke
##             0.093              0.035             0.050
##           brought               brown             brush
##             0.071              0.025             0.018
##          brushing             burning          bursting
##             0.070              0.035             0.139
##            busily                busy               but
##             0.053              0.221             0.188
##            butter             butter'         buttercup
##             0.025              0.018             0.018
##                by               bythe              cake
##             0.170              0.312             0.041
##             cakes                call            called
##             0.013              0.027             0.016
##           calling              calmly              came
##             0.018              0.018             0.138
##            canbut              cannot        canterbury
##             0.018              0.018             0.018
##           capital               cards              care
##             0.015              0.031             0.065
##         carefully             carried          carrying
##             0.021              0.062             0.062
##         carthorse          cartwheels              case
##             0.191              0.035             0.036
```

```
##             case'              cat            cat's
##             0.035            0.027            0.111
##       caterpillar           cattle       caucusrace
##             0.051            0.312            0.011
##            caught         cauldron            cause
##             0.061            0.111            0.041
##            caused          ceiling           centre
##             0.050            0.018            0.018
##           certain           chains          chanced
##             0.011            0.087            0.018
##            change          changed         changing
##             0.251            0.026            0.038
##         character          charges           cheeks
##             0.018            0.191            0.018
##           cheered         cheshire            chief
##             0.031            0.044            0.139
##         childhood        childlife         children
##             0.052            0.052            0.083
##           chimney         chimneys             chin
##             0.026            0.070            0.042
##            choked           choking         choosing
##             0.031            0.312            0.018
##          chuckled           circle    circumstances
##             0.018            0.018            0.052
##           clamour         clapping          clasped
##             0.312            0.018            0.104
##          classics          cleared           clever
##             0.018            0.035            0.025
##             climb         clinging            clock
##             0.104            0.018            0.013
##             close           closed            clubs
##             0.036            0.245            0.052
##           coaxing            coils        collected
##             0.018            0.018            0.074
##              come           comfits      comfortable
##             0.035            0.038            0.052
##       comfortably           coming           common
##             0.139            0.048            0.052
##         commotion          company       complained
##             0.018            0.035            0.070
##       complaining       completely          concert
##             0.070            0.087            0.111
##        conclusion         confused        confusing
##             0.139            0.166            0.031
##         confusion        congereel        conqueror
##             0.086            0.018            0.025
##          conquest         consider      considering
##             0.035            0.052            0.021
##          constant         contempt        continued
##             0.013            0.018            0.047
##     conversations             cook             cool
##             0.052            0.108            0.050
##            corner          corners             cost
##             0.031            0.052            0.087
```

```
##            could        counting         country
##            0.164           0.018           0.035
##           couple         couples          course
##            0.035           0.018           0.021
##          course'         coursei           court
##            0.017           0.052           0.173
##        courtiers         crashed         crawled
##            0.111           0.312           0.035
##         crawling        creature        creatures
##            0.139           0.018           0.057
##        creatures'           creep           cried
##            0.018           0.035           0.057
##            cries         crimson       crocodile
##            0.312           0.025           0.087
##         croqueted   croquetground      croqueting
##            0.070           0.081           0.070
##            cross         crossed     crossexamine
##            0.018           0.141           0.025
##         crouched           crowd         crowded
##            0.018           0.157           0.025
##            crown         crumbs'             cup
##            0.061           0.035           0.035
##        cupboards             cur          curled
##            0.038           0.018           0.025
##         currants         curtain         curving
##            0.018           0.035           0.035
##          cushion         custody             cut
##            0.062           0.070           0.014
##          daisies      daisychain           dance
##            0.035           0.035           0.027
##          dancing            dare            dark
##            0.013           0.025           0.011
##         darkness           dates        daughter
##            0.070           0.052           0.018
##              day            day'            deal
##            0.032           0.025           0.017
##          decided       decidedly         declare
##            0.011           0.027           0.025
##         declared            deep         deepest
##            0.018           0.021           0.018
##            delay         delight      delightful
##            0.087           0.121           0.013
##           denied            deny        derision
##            0.013           0.013           0.018
##        desperate        diamonds             did
##            0.070           0.052           0.126
##              die            died       difficult
##            0.035           0.070           0.111
##       difficulty         digging      diligently
##            0.122           0.038           0.087
##           dipped       direction      direction'
##            0.025           0.011           0.018
##       directions     disappeared  disappointment
##            0.011           0.135           0.035
```

```
##         disgust           dish         dishes
##           0.087          0.011          0.270
##          dismay        disobey        dispute
##           0.035          0.052          0.050
##        distance        distant    distraction
##           0.152          0.221          0.018
##            dive         dodged           dodo
##           0.035          0.191          0.037
##         doesn't          done'           door
##           0.011          0.025          0.225
##           doori          doors       dormouse
##           0.018          0.050          0.110
##      dormouse's           doth         double
##           0.070          0.078          0.052
##       doubledup       doubling          doubt
##           0.139          0.018          0.036
##        doubtful           down          down'
##           0.025          0.150          0.031
##       downwards           doze       draggled
##           0.035          0.035          0.018
##         drawing       drawling  drawlingmaster
##           0.035          0.018          0.018
##     drawlingthe       dreadful      dreadfully
##           0.018          0.018          0.016
##           dream        dreamed       dreaming
##           0.071          0.104          0.104
##         dressed           drew          drink
##           0.018          0.048          0.018
##        dripping           drop        dropped
##           0.018          0.035          0.063
##        dropping          drunk        duchess
##           0.035          0.025          0.131
##       duchess's           dull           each
##           0.231          0.211          0.139
##           eager        eagerly         eaglet
##           0.091          0.032          0.021
##             ear          earls           ears
##           0.027          0.013          0.018
##           ears'          earth            eat
##           0.018          0.027          0.010
##            eats          edgar           edge
##           0.052          0.018          0.111
##           edwin      eeevening            eel
##           0.013          0.031          0.018
##          effect          eggs'         either
##           0.061          0.035          0.014
##           elbow         elbows        elegant
##           0.041          0.052          0.018
##            else          elsie       emphasis
##           0.013          0.018          0.018
##           empty      encourage            end
##           0.035          0.052          0.133
##          ending      energetic        engaged
##           0.070          0.035          0.070
```

```
##            england         english           enjoy
##              0.035           0.041           0.104
##             enough         enoughi        entirely
##              0.033           0.018           0.139
##           entrance            even            ever
##              0.052           0.063           0.031
##              ever'           every       everybody
##              0.025           0.087           0.037
##           evidence        evidence'       evidently
##              0.027           0.011           0.018
##          examining       excellent          except
##              0.018           0.074           0.088
##            execute        executed       execution
##              0.035           0.016           0.038
##         executioner   executiononce      executions
##              0.110           0.312           0.013
##          existence        expected       expecting
##              0.018           0.018           0.151
##            explain      expression       extremely
##              0.041           0.139           0.018
##         extremely'             eye            eyes
##              0.018           0.067           0.155
##            eyesand            face         faceand
##              0.104           0.092           0.018
##              faces            fact          fading
##              0.056           0.054           0.139
##            failure           faint        fainting
##              0.035           0.018           0.018
##            faintly            fair         fairly'
##              0.052           0.018           0.070
##                fan         fancied          fanned
##              0.112           0.025           0.018
##            fanning            far'   farmyardwhile
##              0.035           0.025           0.312
##            farther         fashion            fast
##              0.070           0.074           0.036
##             faster             fat          father
##              0.041           0.035           0.030
##           favoured        favourite           fear
##              0.035           0.070           0.096
##           feathers            feel            feet
##              0.018           0.021           0.204
##               fell            felt             few
##              0.093           0.017           0.045
##           fidgeted           field         fifteen
##              0.018           0.035           0.035
##              fight        fighting         figure'
##              0.111           0.052           0.035
##             filled            find          finger
##              0.191           0.092           0.044
##             finish        finished       finishing
##              0.017           0.024           0.018
##               fire        fireirons           first
##              0.101           0.070           0.119
```

9

```
##         first'      fishfootman              fit
##          0.013            0.086            0.013
##         fitted              fix            flame
##          0.035            0.070            0.018
##       flamingo        flamingoes          flapper
##          0.148            0.052            0.035
##       flappers          flashed             flat
##          0.018            0.035            0.038
##       flinging            floor       flowerbeds
##          0.018            0.051            0.070
##        flowers            flown            flung
##          0.038            0.035            0.018
##         flurry        fluttered              fly
##          0.139            0.070            0.101
##         flying           folded          folding
##          0.070            0.031            0.018
##       followed          follows             foot
##          0.113            0.052            0.054
##        footman        footman's        footsteps
##          0.042            0.070            0.013
##            for         forepaws           forget
##          0.130            0.018            0.013
##     forgetting        forgotten             form
##          0.091            0.030            0.018
##    fortunately         forwards            found
##          0.035            0.191            0.170
##       fountains           france             free
##          0.050            0.035            0.011
##        friends           fright       frightened
##          0.221            0.062            0.152
##     frogfootman             from            from'
##          0.070            0.177            0.018
##          front             full          fumbled
##          0.038            0.093            0.035
##            fur          furious        furiously
##          0.041            0.052            0.018
##         furrow          furrows          gallons
##          0.139            0.052            0.018
##           game            game'            games
##          0.195            0.035            0.018
##         garden        gardeners           gather
##          0.128            0.138            0.052
##           gave           gazing          general
##          0.042            0.087            0.013
##      generally           gently              get
##          0.128            0.021            0.070
##        getting             give            given
##          0.097            0.042            0.018
##         giving          glanced            glass
##          0.013            0.052            0.100
##          globe         gloomily           gloves
##          0.139            0.035            0.102
##             go              go'             goes
##          0.062            0.025            0.021
```

```
##              going         golden       goldfish
##              0.106          0.146          0.123
##               gone           good  goodnaturedly
##              0.142          0.063          0.087
##              goose            got        graceful
##              0.025          0.141          0.035
##              grand          grass          grave
##              0.013          0.356          0.025
##            gravely         grazed          great
##              0.021          0.070          0.143
##               grew           grey           grin
##              0.018          0.035          0.032
##            grinned       grinning         ground
##              0.011          0.052          0.166
##          groundand           grow        growing
##              0.070          0.026          0.055
##              grown       grumbled        grunted
##              0.086          0.018          0.011
##            gryphon          guard          guess
##              0.171          0.087          0.013
##            guessed         guests     guineapigs
##              0.091          0.241          0.183
##                had           hair           half
##              0.276          0.041          0.183
##               hall           hand         handed
##              0.106          0.110          0.061
##              hands        hanging         happen
##              0.092          0.211          0.028
##            happens          happy           hard
##              0.040          0.052          0.067
##             hardly           hare         hasn't
##              0.102          0.156          0.013
##              haste           hat'       hatching
##              0.035          0.018          0.035
##               hate         hatter           have
##              0.018          0.140          0.031
##             having             he           he's
##              0.112          0.113          0.025
##               head          heads           hear
##              0.202          0.013          0.165
##              heard        hearing          heart
##              0.038          0.053          0.050
##             hearth         hearts          heavy
##              0.052          0.086          0.245
##              hedge       hedgehog      hedgehogs
##              0.038          0.157          0.111
##            hedges'          heels           held
##              0.018          0.191          0.114
##               help       helpless            her
##              0.042          0.070          0.286
##              here'           hers        herself
##              0.017          0.061          0.106
##            hersshe           hide           high
##              0.104          0.018          0.060
```

```
##            highest              him           himself
##              0.052            0.088             0.044
##               hint              his              hiss
##              0.050            0.138             0.035
##            history         history'               hit
##              0.048            0.035             0.050
##             hoarse         hoarsely              hold
##              0.041            0.191             0.094
##            holding           hookah            hoping
##              0.041            0.056             0.101
##                hot             hour             hours
##              0.021            0.050             0.044
##              house              how           however
##              0.103            0.067             0.023
##             howled          howling              hung
##              0.104            0.021             0.018
##             hungry          hunting           hurried
##              0.031            0.081             0.195
##          hurriedly            hurry              hurt
##              0.038            0.133             0.021
##                i'd             idea             idea'
##              0.047            0.050             0.018
##                 if             ifif           imagine
##              0.019            0.018             0.038
##          immediate      immediately         impatient
##              0.035            0.081             0.018
##          important       important'        impossible
##              0.011            0.018             0.013
##            improve               in            inches
##              0.087            0.332             0.040
##             indeed        indignant          inkstand
##              0.049            0.018             0.018
##           instance        instantly           instead
##              0.041            0.079             0.031
##        interrupted             into        introduced
##              0.036            0.246             0.018
##            inwards               is               is'
##              0.035            0.026             0.031
##               isbe             isoh            istake
##              0.018            0.013             0.070
##              isthe               it            itonce
##              0.018            0.225             0.312
##                its           itself               jar
##              0.234            0.097             0.035
##                jaw             jaws         jellyfish
##              0.035            0.025             0.035
##               join           joined              joys
##              0.025            0.013             0.052
##              judge           jumped           jumping
##              0.041            0.192             0.018
##              juror             jury             jury'
##              0.052            0.102             0.035
##            jurybox         jurybox'           jurymen
##              0.121            0.018             0.079
```

```
##          just          keep       keeping
##         0.157         0.117         0.013
##          kept           key           kid
##         0.087         0.140         0.110
##       killing         kind'        kindly
##         0.035         0.018         0.018
##          king        king's         kings
##         0.180         0.025         0.018
##          kiss       kitchen         knave
##         0.018         0.070         0.071
##          knee         kneel         knelt
##         0.179         0.052         0.035
##          knew      knocking     knocking'
##         0.115         0.035         0.013
##         know'       knowing      knuckles
##         0.012         0.148         0.035
##         label      labelled         lacie
##         0.050         0.035         0.018
##        ladder          lady         lamps
##         0.035         0.013         0.035
##          land       languid           lap
##         0.035         0.035         0.111
##         large        larger          last
##         0.179         0.015         0.163
##        lasted        lastly         laugh
##         0.035         0.052         0.018
##       laughed      laughing           law
##         0.099         0.099         0.050
##           lay        lazily       leaders
##         0.070         0.018         0.035
##       leaning         leant          leap
##         0.135         0.018         0.018
##         least         leave        leaves
##         0.038         0.041         0.044
##           led         ledge          left
##         0.096         0.018         0.127
##          legs        lessen       lessons
##         0.141         0.018         0.015
##      lessons'          lest        letter
##         0.025         0.035         0.031
##       letters       licking           lie
##         0.070         0.018         0.018
##          life          like         likes
##         0.029         0.032         0.018
##         limbs          line         lines
##         0.035         0.013         0.018
##        linked          list        listen
##         0.070         0.121         0.044
##      listened     listeners     listening
##         0.104         0.052         0.050
##           lit        little       little'
##         0.035         0.223         0.074
##          live         lived        livery
##         0.040         0.021         0.013
```

13

```
##                lives          lizard        lizard's
##                0.050           0.079           0.312
##              lobster         lobster'        lobsters
##                0.050           0.018           0.015
##                 lock          locked           locks
##                0.035           0.052           0.038
##               london            long          longed
##                0.018           0.121           0.013
##                 look          looked         looking
##                0.085           0.093           0.099
##          lookingglass         lookout            lory
##                0.070           0.035           0.024
##                 lost            loud          loudly
##                0.011           0.040           0.011
##                 love        loveliest          lovely
##                0.035           0.035           0.038
##               loving             low          lower'
##                0.052           0.058           0.018
##               lowing         luckily           lying
##                0.312           0.018           0.127
##                    m              m'            made
##                0.025           0.050           0.141
##                magic          magpie            make
##                0.018           0.018           0.012
##               making         mallets             man
##                0.026           0.052           0.018
##                 man'          manage         managed
##                0.018           0.037           0.011
##             managing          manner            maps
##                0.139           0.013           0.018
##                march         marched       marchjust
##                0.145           0.018           0.018
##                 mark          marked      marmalade'
##                0.050           0.026           0.035
##                 mary          master          matter
##                0.011           0.021           0.038
##               maybe'            meal           means
##                0.018           0.312           0.036
##                meant       meanwhile         measure
##                0.053           0.018           0.035
##                 meet         meeting      melancholy
##                0.038           0.035           0.023
##           memorandum          memory       mentioned
##                0.035           0.035           0.021
##               mercia          merely         merrily
##                0.013           0.086           0.018
##                  met          miceoh          middle
##                0.061           0.018           0.113
##                might         milkjug            mine
##                0.025           0.070           0.017
##                mine'          minute         minutes
##                0.013           0.048           0.051
##             miserable          missed         mistake
##                0.221           0.025           0.011
```

```
##              mixed            mock          modern
##              0.312           0.162           0.018
##             moment        moment's           month
##              0.181           0.074           0.013
##               moon           moral          morcar
##              0.035           0.047           0.013
##               more          moreas            most
##              0.117           0.018           0.026
##             mostly           mouse      mousetraps
##              0.018           0.087           0.035
##              mouth            move           moved
##              0.112           0.041           0.053
##               much           much'        muchness
##              0.129           0.048           0.035
##        muchnessdid     muchnessyou       murdering
##              0.035           0.035           0.052
##           muscular        mushroom       mushroom'
##              0.035           0.080           0.018
##               must           must'       muttering
##              0.057           0.018           0.051
##                 my         myself'        mystery'
##              0.018           0.013           0.018
##               name           names          names'
##              0.024           0.018           0.035
##               near          nearer          nearly
##              0.119           0.017           0.018
##               neat          neatly            neck
##              0.018           0.013           0.074
##              needs    neighbouring         neither
##              0.052           0.312           0.050
##              never      neverending      newspapers
##              0.019           0.312           0.052
##               next         nibbled        nibbling
##              0.096           0.025           0.061
##             nicely           night         nightair
##              0.111           0.021           0.018
##               nile            nine              no
##              0.087           0.044           0.029
##              noise          noises     northumbria
##              0.041           0.312           0.018
##               nose             not         nothing
##              0.030           0.099           0.022
##             notice         noticed        noticing
##              0.094           0.032           0.018
##                now         nowhere        nurseand
##              0.022           0.050           0.018
##            nursing         o'clock         obliged
##              0.061           0.011           0.038
##             oblong    occasionally        occurred
##              0.052           0.018           0.018
##                 of             off         officer
##              0.583           0.226           0.070
##           officers     ointmentone             old
##              0.148           0.035           0.015
```

```
##              old'          oldest             on
##             0.061           0.035          0.326
##              once             one           ones
##             0.168           0.144          0.070
##           oneself            only           open
##             0.070           0.100          0.172
##            opened     opportunity       opposite
##             0.051           0.041          0.018
##                or           order         order'
##             0.153           0.050          0.018
##          ordering      ornamented          other
##             0.221           0.050          0.282
##            others       otherwise           ours
##             0.054           0.018          0.018
##               out      outoftheway        outside
##             0.186           0.011          0.021
##          outside'            over       overcome
##             0.070           0.175          0.087
##               owl             own           pack
##             0.052           0.040          0.102
##          painting            pair          pairs
##             0.025           0.063          0.070
##              pale         panther        panting
##             0.036           0.052          0.123
##             paper       parchment       pardoned
##             0.044           0.099          0.035
##             paris            part     particular
##             0.018           0.038          0.021
##         partners'           parts          party
##             0.018           0.139          0.106
##           passage          passed        passing
##             0.057           0.056          0.035
##           passion            past      patriotic
##             0.062           0.035          0.018
##            patted       pattering        pattern
##             0.070           0.011          0.104
##             pause         pebbles         peeped
##             0.025           0.038          0.111
##           peering            pegs          pence
##             0.035           0.018          0.052
##           pencils          people         pepper
##             0.087           0.032          0.044
##         pepperbox       perfectly         picked
##             0.070           0.027          0.111
##           picking        pictured       pictures
##             0.050           0.052          0.055
##              pie'           piece         pieces
##             0.052           0.088          0.041
##           pigbaby          pigeon           pigs
##             0.312           0.052          0.062
##           pinched            pink          place
##             0.013           0.035          0.166
##            placed      placesall'        plainly
##             0.018           0.018          0.104
```

```
##                plate          plates            play
##                0.091           0.270           0.094
##               played         players         playing
##                0.052           0.096           0.013
##             pleasant         pleases        pleasure
##                0.018           0.104           0.062
##              pointed        pointing            pool
##                0.018           0.091           0.150
##              poolshe            poor             pop
##                0.312           0.068           0.035
##                 pope      positively        possibly
##                0.035           0.018           0.061
##                 pour            pray       presented
##                0.087           0.062           0.018
##            presently         pressed        pressing
##                0.013           0.031           0.018
##              printed         prison'        prisoner
##                0.070           0.018           0.018
##             proceed'      procession     procession'
##                0.018           0.053           0.018
##          processions       producing          proper
##                0.018           0.035           0.011
##            prosecute      protection           prove
##                0.035           0.035           0.018
##               proved       provoking        punching
##                0.013           0.139           0.018
##                puppy         puppy's             put
##                0.172           0.018           0.044
##              putting         puzzled       quadrille
##                0.011           0.051           0.053
##              quarrel       quarrelled      quarrelling
##                0.070           0.018           0.062
##                queen          queen'         queen's
##                0.238           0.018           0.218
##               queens           queer        queerest
##                0.018           0.112           0.018
##          queerlooking       question       question'
##                0.018           0.028           0.018
##              quickly           quiet         quietly
##                0.062           0.050           0.048
##                quite          quiver          rabbit
##                0.117           0.018           0.174
##              rabbit's      rabbithole      racecourse
##                0.011           0.051           0.018
##               raising             ran         rapidly
##                0.052           0.133           0.025
##               rapped            rate          rather
##                0.035           0.014           0.036
##              rathole          rattle        rattling
##                0.035           0.312           0.245
##               ravens           reach        reaching
##                0.052           0.096           0.018
##                 read         reading           ready
##                0.040           0.041           0.020
```

```
##          real      realitythe            reason
##         0.031           0.312             0.060
##    recognised        recovered               red
##         0.018           0.074             0.050
##       reduced         reedsthe      refreshments
##         0.052           0.312             0.052
##       refused         relieved          remained
##         0.018           0.018             0.081
##     remaining        remarkable         remarking
##         0.035           0.013             0.081
##     remedies'      remembering         reminding
##         0.035           0.052             0.139
##      removed'           repeat          repeated
##         0.035           0.072             0.029
##     repeating            reply          resource
##         0.061           0.025             0.018
##          rest          resting            retire
##         0.166           0.099             0.018
##      returned        returning             ridge
##         0.025           0.018             0.139
##        ridges            right            right'
##         0.052           0.070             0.081
##     righthand             ring             riper
##         0.038           0.013             0.052
##      rippling           rising            roared
##         0.312           0.035             0.018
##          rock             rome            romeno
##         0.018           0.018             0.018
##          roof             room             roots
##         0.100           0.040             0.018
##          rose            roses          rosetree
##         0.070           0.031             0.088
##         round              row             royal
##         0.156           0.035             0.062
##        rubbed          rubbing          rudeness
##         0.018           0.025             0.087
##         rules         rumbling               run
##         0.081           0.035             0.122
##       running             rush            rushed
##         0.118           0.135             0.191
##       rustled         rustling             sadly
##         0.312           0.312             0.040
##          safe             sage              said
##         0.025           0.035             0.070
##         said'           salmon              same
##         0.018           0.035             0.148
##          sang              sat         saucepans
##         0.086           0.206             0.070
##          save              saw               say
##         0.018           0.090             0.029
##          say'           saying             scale
##         0.027           0.052             0.087
##    scrambling        scratching            scream
##         0.018           0.018             0.038
```

18

```
##          screaming           scroll             sea'
##              0.035            0.099            0.025
##          seaography        seashore'           seated
##              0.018            0.018            0.087
##             second         secondly              see
##              0.079            0.025            0.071
##             seeing             seem           seemed
##              0.018            0.038            0.132
##               seen   seeneverything             sell
##              0.036            0.087            0.035
##               send            sends            sense
##              0.139            0.018            0.051
##           sentence        sentenced           series
##              0.040            0.070            0.191
##           serpents              set          setting
##              0.021            0.081            0.104
##             settle          settled         severely
##              0.018            0.041            0.053
##              shade           shaped           shared
##              0.087            0.086            0.312
##            sharing            sharp              she
##              0.052            0.072            0.314
##           shedding       sheepbells          shelves
##              0.018            0.312            0.035
##           shepherd         shifting         shilling
##              0.312            0.052            0.035
##          shillings      shinglewill          shining
##              0.052            0.018            0.087
##              shock            shook            shore
##              0.087            0.031            0.031
##              short          shorter         shoulder
##              0.131            0.038            0.027
##            shouted         shouting           shower
##              0.013            0.062            0.074
##             shriek           shrill        shrinking
##              0.319            0.326            0.029
##               shut         shutting             side
##              0.110            0.038            0.126
##              sides           sighed          sighing
##              0.018            0.017            0.011
##              sight             sign         signifies
##              0.100            0.018            0.018
##             silent           simple           simply
##              0.060            0.053            0.038
##        simplynever            since          singers
##              0.018            0.036            0.123
##               sink             sir'           sister
##              0.018            0.031            0.081
##           sister's         sisters'              sit
##              0.104            0.018            0.051
##               sits          sitting         sixpence
##              0.018            0.133            0.035
##               size         skimming            skirt
##              0.018            0.070            0.139
```

```
##         skurried              sky           slate
##            0.070            0.096           0.052
##       slatepencil           slates       slightest
##            0.312            0.047           0.018
##          slippery           slowly       sluggard'
##            0.104            0.051           0.035
##             small         smallest           smile
##            0.068            0.062           0.038
##             smoke          smoking           snail
##            0.087            0.050           0.011
##            snatch           sneeze         sneezed
##            0.025            0.258           0.018
##           sneezes         sneezing        snorting
##            0.074            0.164           0.018
##             snout               so           soand
##            0.018            0.141           0.070
##           sobbing             sobs            soft
##            0.038            0.304           0.018
##           soldier         soldiers          solemn
##            0.087            0.157           0.071
##          solemnly            solid            some
##            0.036            0.018           0.070
##          somebody          someone            song
##            0.023            0.018           0.080
##              soon           sooner          sorrow
##            0.066            0.013           0.013
##           sorrows             sort           sort'
##            0.052            0.016           0.018
##             sorts            sound         sounded
##            0.031            0.025           0.056
##            sounds             soup           speak
##            0.031            0.039           0.018
##          speakand         speaking      spectacles
##            0.070            0.018           0.011
##             spite         splashed      splendidly
##            0.018            0.312           0.018
##              spot        sprawling          spread
##            0.018            0.139           0.011
##         squeaking         stamping           stand
##            0.209            0.050           0.017
##          standing          staring         started
##            0.087            0.141           0.074
##          startled           steady     steamengine
##            0.013            0.018           0.018
##             stick          stigand           still
##            0.191            0.018           0.076
##          stirring            stole           stood
##            0.099            0.038           0.054
##             stool          stopped        straight
##            0.087            0.021           0.050
##      straightened    straightening         strange
##            0.139            0.018           0.102
##          strength         stretched          struck
##            0.035            0.038           0.062
```

```
##              stuff'          stupid        stupidly
##              0.052           0.038           0.087
##            subject'        subjects       submitted
##              0.018           0.018           0.035
##           succeeded            such          sudden
##              0.111           0.056           0.017
##            suddenly            suet           sugar
##              0.033           0.052           0.052
##                suit         sulkily          summer
##              0.011           0.025           0.074
##                 sun          supple      suppressed
##              0.074           0.035           0.200
##            surprise       surprised            swam
##              0.048           0.030           0.025
##                swim           table            tail
##              0.029           0.170           0.054
##                take           taken           takes
##              0.097           0.096           0.038
##              taking            tale         talking
##              0.063           0.044           0.037
##              taller           tarts           taste
##              0.038           0.088           0.038
##                 tea            tea'        teaching
##              0.021           0.062           0.018
##              teacup         teacups          teanot
##              0.031           0.441           0.070
##            teaparty          teapot         teatray
##              0.038           0.087           0.035
##          telescopes           tells             ten
##              0.070           0.013           0.060
##            terribly            than         thanked
##              0.018           0.079           0.018
##                that          that's        thatched
##              0.167           0.028           0.070
##            thatonly           their          theirs
##              0.018           0.155           0.070
##                them           them'          them'i
##              0.127           0.018           0.052
##             themall         themand      themselves
##              0.087           0.038           0.071
##                then         thenshe           there
##              0.137           0.070           0.095
##                they          they'd         thimble
##              0.169           0.031           0.025
##             thinand           thing          thing'
##              0.070           0.094           0.051
##              things         things'        thinking
##              0.039           0.018           0.101
##                this         thistle      thoroughly
##              0.136           0.191           0.062
##               those           though         thought
##              0.057           0.173           0.028
##            thoughts        thousand           three
##              0.025           0.025           0.136
```

```
##           threelegged           throat         throat'
##                 0.074            0.018           0.018
##                throne          through        throwing
##                 0.087            0.159           0.062
##               thunder             tidy            till
##                 0.018            0.070           0.147
##                tillie             time           time'
##                 0.018            0.193           0.048
##                 timid         tinkling            tiny
##                 0.038            0.312           0.088
##                tipped           tiptoe           tired
##                 0.139            0.025           0.041
##              tittered               to        together
##                 0.018            0.386           0.019
##             tomorrow'             tone           tones
##                 0.070            0.026           0.104
##                tongue              too            took
##                 0.070            0.090           0.144
##                   top             tops            toss
##                 0.075            0.035           0.104
##               tossing             toto         tougher
##                 0.061            0.018           0.052
##              trampled             tree           trees
##                 0.191            0.086           0.093
##               tremble         trembled       trembling
##                 0.070            0.025           0.058
##                 trial          trial's          trials
##                 0.041            0.011           0.052
##                tricks            tried    triumphantly
##                 0.018            0.073           0.025
##                  trot         trotting         trouble
##                 0.018            0.025           0.023
##                  true          trumpet             try
##                 0.052            0.111           0.033
##                trying           tucked         tumbled
##                 0.094            0.071           0.191
##                turned            turns          turnup
##                 0.050            0.041           0.018
##                turtle         turtle's         turtles
##                 0.115            0.221           0.038
##                twelve        twentieth      twentyfour
##                 0.027            0.052           0.018
##                 twice          twinkle        twinkled
##                 0.088            0.010           0.018
##             twinkling            twist             two
##                 0.057            0.139           0.065
##          uglification           unable          uncivil
##                 0.018            0.035           0.018
##         uncomfortable     uncomfortably      uncommonly
##                 0.053            0.018           0.035
##                 under       underneath      understood
##                 0.180            0.035           0.052
##             undertone         uneasily     unfortunate
##                 0.013            0.025           0.245
```

22

```
##              unhappy            unjust         unlocking
##                0.025             0.018             0.035
##              unrolled          untwist        unwillingly
##                0.135             0.018             0.070
##                   up              upon             upset
##                0.256             0.090             0.171
##            upsetting          upstairs                us
##                0.139             0.035             0.020
##                  use              used             using
##                0.039             0.032             0.052
##           usurpation             vague          vanished
##                0.035             0.035             0.079
##               velvet          verdict'             verse
##                0.035             0.041             0.074
##               verse'            verses              very
##                0.050             0.036             0.133
##             violence           violent         violently
##                0.018             0.025             0.096
##                voice            voices            waist'
##                0.232             0.013             0.018
##      waistcoatpocket            waited           waiting
##                0.035             0.021             0.088
##               walked           walking          wandered
##                0.101             0.102             0.025
##            wandering            wanted          warning'
##                0.099             0.096             0.018
##                  was              wash      washingextra
##                0.331             0.038             0.018
##               wasn't           wasting             watch
##                0.013             0.013             0.013
##              watched          watching            waters
##                0.038             0.081             0.087
##               waving               way              way'
##                0.151             0.205             0.035
##                we've              weak              week
##                0.038             0.038             0.131
##                well'              went              were
##                0.031             0.110             0.242
##                 what              when         whereupon
##                0.057             0.159             0.191
##             wherever           whether             which
##                0.139             0.075             0.099
##                while            whiles           whistle
##                0.259             0.018             0.018
##                white          whiting'               who
##                0.197             0.038             0.102
##                whole              whom             whose
##                0.132             0.070             0.050
##                 wife               wig            wildly
##                0.035             0.038             0.099
##                 will           william          william'
##                0.010             0.027             0.031
##                  win              wind            window
##                0.018             0.221             0.057
```

```
##        wings            with            with'
##        0.035           0.324            0.013
##       within         without          witness
##        0.070           0.057            0.071
##     witness'            woke            woman
##        0.052           0.035            0.052
##       won't'       wonderful        wondering
##        0.035           0.062            0.041
##   wonderland            wood            wood'
##        0.211           0.060            0.052
##         word           words             wore
##        0.038           0.138            0.052
##         work           world            worry
##        0.094           0.047            0.191
##        worse           would         wrapping
##        0.081           0.230            0.018
##     wriggling           write         writhing
##        0.052           0.063            0.018
## writingdesks           wrong            wrote
##        0.052           0.040            0.041
##        yards          yawned          yawning
##        0.018           0.025            0.013
##        years          yelled             yelp
##        0.052           0.018            0.191
##         yet'            you'           you've
##        0.025           0.041            0.032
##        youth          youth'           zigzag
##        0.061           0.041            0.035
```

```r
with(dat, word_cor(text, tot, word="the", r = .01))
```

```
## $the
##            '           ''tis         'advance
##        0.027           0.062            0.018
##       'alice            'all             'and
##        0.035           0.061            0.098
##          'as           'back           'begin
##        0.069           0.035            0.035
##       'boots          'bring            'call
##        0.018           0.139            0.027
##        'chop       'consider          'crumbs
##        0.018           0.011            0.035
##        'dear          'drink           'drive
##        0.035           0.041            0.018
##         'eat         'either     'explanations
##        0.018           0.018            0.018
##       'first            'for           'found
##        0.052           0.032            0.021
##        'from           'fury            'give
##        0.070           0.035            0.011
##          'go         'hadn't           'have
##        0.013           0.018            0.011
##          'hm        'however            'i'd
##        0.018           0.018            0.027
```

```
##               'if             'in             'it
##             0.045           0.057           0.013
##            'just            'let           'let's
##             0.041           0.031           0.025
##          'likely          'lives         'living
##             0.018           0.018           0.018
##          'moral'             'my         'mystery
##             0.070           0.013           0.018
##            'nine            'now           'once
##             0.035           0.013           0.018
##              'or         'orange          'prizes
##             0.015           0.035           0.018
##          'really         'reeling           'same
##             0.011           0.018           0.018
##           'seals             'sh            'she
##             0.035           0.018           0.018
##           'she's        'silence         'soooop
##             0.011           0.013           0.052
##           'speak          'stand        'suppose
##             0.025           0.035           0.013
##            'take        'talking           'tell
##             0.013           0.018           0.011
##             'ten           'that          'that's
##             0.035           0.037           0.020
##             'the     'theyyou've          'this
##             0.049           0.018           0.011
##            'till            'tis           'turn
##             0.038           0.047           0.013
##      'twentyfour          'until             'w
##             0.052           0.018           0.018
##             'was        'where's          'why'
##             0.018           0.025           0.013
##            'will        'without          'write
##             0.018           0.052           0.052
##             'you         'you'll          'your
##             0.026           0.013           0.013
##               a           about           above
##             0.256           0.107           0.071
##          absence      acceptance        accident
##             0.087           0.018           0.086
##    accidentally         account       accustomed
##             0.139           0.018           0.035
##          across             act        actually
##             0.067           0.139           0.035
##           added          adding       addressed
##             0.050           0.018           0.038
##         adjourn        adoption       advantage
##             0.035           0.035           0.111
##      adventures          advice        advisable
##             0.051           0.013           0.018
##       advisable'           after        aftertime
##             0.018           0.076           0.052
##           again         against             age
##             0.106           0.083           0.018
```

25

##	ago	agree	air
##	0.052	0.013	0.190
##	alice	alice's	alive
##	0.059	0.044	0.101
##	all	all'	allow
##	0.267	0.031	0.038
##	along	along'catch	already
##	0.048	0.018	0.050
##	also	alternately	altogether
##	0.025	0.018	0.025
##	always	among	an
##	0.047	0.048	0.020
##	ancient	and	anger
##	0.018	0.548	0.038
##	animal	animals	another
##	0.018	0.031	0.070
##	antipathies	anxious	anxiously
##	0.035	0.025	0.030
##	any	anything	appealed
##	0.014	0.074	0.018
##	appear	appearance	appeared
##	0.025	0.018	0.087
##	applause	arch	archbishop
##	0.052	0.070	0.025
##	arches	are	argued
##	0.114	0.046	0.035
##	arguments	arithmeticambition	arm
##	0.018	0.018	0.077
##	arminarm	arms	around
##	0.052	0.030	0.294
##	arranged	arrived	as
##	0.035	0.087	0.221
##	ask	askance	asleep
##	0.012	0.018	0.067
##	assembled	at	atheling
##	0.074	0.280	0.018
##	attempt	attempted	attempts
##	0.035	0.018	0.052
##	attending	attends	audibly
##	0.011	0.070	0.018
##	avoid	away	awfully
##	0.035	0.167	0.018
##	axes'	axis'	baby
##	0.018	0.018	0.190
##	babythe	back	backs
##	0.070	0.244	0.104
##	backsomersault	baked	balanced
##	0.035	0.052	0.018
##	balls	bank	banks
##	0.052	0.086	0.018
##	bankthe	bark	barking
##	0.018	0.038	0.191
##	bat	bawled	be
##	0.011	0.052	0.084

```
##           beak             bear          beasts
##          0.052            0.062           0.062
##           beat          beating       beautiful
##          0.079            0.013           0.034
##     beautifully           became         because
##          0.062            0.074           0.034
##         become         becoming            been
##          0.017            0.052           0.034
##         before            began           begin
##          0.132            0.182           0.022
##      beginning       beginning'          begins
##          0.037            0.035           0.018
##          begun           behind           being
##          0.028            0.097           0.113
##        believe         believed          belong
##          0.048            0.312           0.018
##        beloved            below            bent
##          0.035            0.061           0.018
##           beor          besides            best
##          0.018            0.081           0.062
##        between            bill'           birds
##          0.058            0.018           0.087
##            bit           blades          blasts
##          0.074            0.052           0.074
##           blew             blow           blown
##          0.074            0.123           0.018
##          blows             body            bone
##          0.035            0.099           0.018
##          bones             book           book'
##          0.052            0.032           0.062
##    bookshelves             both          bottle
##          0.018            0.021           0.072
##         bottom            bough           bound
##          0.018            0.018           0.018
##         bowing            boxed             boy
##          0.070            0.018           0.074
##         boyand         branches           brass
##          0.312            0.025           0.018
## breadandbutter  breadandbutter'      breadknife
##          0.056            0.018           0.018
##          break           breath          breeze
##          0.038            0.053           0.052
##         bright       brightened           broke
##          0.093            0.035           0.050
##        brought            brown           brush
##          0.071            0.025           0.018
##       brushing          burning        bursting
##          0.070            0.035           0.139
##         busily             busy             but
##          0.053            0.221           0.188
##         butter          butter'       buttercup
##          0.025            0.018           0.018
##             by            bythe            cake
##          0.170            0.312           0.041
```

```
##           cakes           call         called
##           0.013          0.027          0.016
##         calling         calmly           came
##           0.018          0.018          0.138
##          canbut         cannot     canterbury
##           0.018          0.018          0.018
##         capital          cards           care
##           0.015          0.031          0.065
##       carefully        carried       carrying
##           0.021          0.062          0.062
##        carthorse     cartwheels           case
##           0.191          0.035          0.036
##           case'            cat          cat's
##           0.035          0.027          0.111
##      caterpillar         cattle     caucusrace
##           0.051          0.312          0.011
##           caught       cauldron          cause
##           0.061          0.111          0.041
##          caused        ceiling         centre
##           0.050          0.018          0.018
##         certain         chains        chanced
##           0.011          0.087          0.018
##          change        changed       changing
##           0.251          0.026          0.038
##       character        charges         cheeks
##           0.018          0.191          0.018
##         cheered       cheshire          chief
##           0.031          0.044          0.139
##       childhood      childlife       children
##           0.052          0.052          0.083
##         chimney       chimneys           chin
##           0.026          0.070          0.042
##          choked        choking       choosing
##           0.031          0.312          0.018
##        chuckled         circle  circumstances
##           0.018          0.018          0.052
##         clamour       clapping        clasped
##           0.312          0.018          0.104
##        classics        cleared         clever
##           0.018          0.035          0.025
##           climb       clinging          clock
##           0.104          0.018          0.013
##           close         closed          clubs
##           0.036          0.245          0.052
##         coaxing          coils      collected
##           0.018          0.018          0.074
##            come        comfits     comfortable
##           0.035          0.038          0.052
##      comfortably         coming         common
##           0.139          0.048          0.052
##        commotion        company     complained
##           0.018          0.035          0.070
##      complaining     completely        concert
##           0.070          0.087          0.111
```

28

```
##        conclusion            confused           confusing
##             0.139               0.166               0.031
##         confusion           congereel           conqueror
##             0.086               0.018               0.025
##          conquest            consider         considering
##             0.035               0.052               0.021
##          constant            contempt           continued
##             0.013               0.018               0.047
##     conversations                cook                cool
##             0.052               0.108               0.050
##            corner             corners                cost
##             0.031               0.052               0.087
##             could            counting             country
##             0.164               0.018               0.035
##            couple             couples              course
##             0.035               0.018               0.021
##           course'             coursei               court
##             0.017               0.052               0.173
##         courtiers             crashed             crawled
##             0.111               0.312               0.035
##          crawling            creature            creatures
##             0.139               0.018               0.057
##         creatures'               creep               cried
##             0.018               0.035               0.057
##             cries             crimson           crocodile
##             0.312               0.025               0.087
##          croqueted        croquetground           croqueting
##             0.070               0.081               0.070
##             cross             crossed         crossexamine
##             0.018               0.141               0.025
##          crouched               crowd             crowded
##             0.018               0.157               0.025
##             crown             crumbs'                 cup
##             0.061               0.035               0.035
##          cupboards                 cur              curled
##             0.038               0.018               0.025
##          currants             curtain             curving
##             0.018               0.035               0.035
##           cushion             custody                 cut
##             0.062               0.070               0.014
##            daisies          daisychain               dance
##             0.035               0.035               0.027
##           dancing                dare                dark
##             0.013               0.025               0.011
##          darkness               dates            daughter
##             0.070               0.052               0.018
##               day                day'                deal
##             0.032               0.025               0.017
##           decided           decidedly             declare
##             0.011               0.027               0.025
##          declared                deep             deepest
##             0.018               0.021               0.018
##             delay             delight          delightful
##             0.087               0.121               0.013
```

30

```
##              edwin         eeevening                eel
##              0.013             0.031              0.018
##             effect             eggs'            either
##              0.061             0.035              0.014
##              elbow            elbows           elegant
##              0.041             0.052              0.018
##               else             elsie          emphasis
##              0.013             0.018              0.018
##              empty          encourage               end
##              0.035             0.052              0.133
##             ending          energetic           engaged
##              0.070             0.035              0.070
##            england            english             enjoy
##              0.035             0.041              0.104
##             enough            enoughi          entirely
##              0.033             0.018              0.139
##           entrance               even              ever
##              0.052             0.063              0.031
##              ever'              every         everybody
##              0.025             0.087              0.037
##           evidence          evidence'         evidently
##              0.027             0.011              0.018
##           examining          excellent            except
##              0.018             0.074              0.088
##            execute           executed         execution
##              0.035             0.016              0.038
##         executioner       executiononce        executions
##              0.110             0.312              0.013
##          existence           expected         expecting
##              0.018             0.018              0.151
##            explain         expression         extremely
##              0.041             0.139              0.018
##          extremely'                eye              eyes
##              0.018             0.067              0.155
##            eyesand               face           faceand
##              0.104             0.092              0.018
##              faces               fact            fading
##              0.056             0.054              0.139
##            failure              faint          fainting
##              0.035             0.018              0.018
##            faintly               fair           fairly'
##              0.052             0.018              0.070
##                fan            fancied            fanned
##              0.112             0.025              0.018
##            fanning               far'      farmyardwhile
##              0.035             0.025              0.312
##            farther            fashion              fast
##              0.070             0.074              0.036
##             faster                fat            father
##              0.041             0.035              0.030
##           favoured          favourite              fear
##              0.035             0.070              0.096
##           feathers               feel              feet
##              0.018             0.021              0.204
```

```
##           fell          felt           few
##          0.093         0.017         0.045
##       fidgeted         field       fifteen
##          0.018         0.035         0.035
##          fight      fighting       figure'
##          0.111         0.052         0.035
##         filled          find        finger
##          0.191         0.092         0.044
##         finish      finished     finishing
##          0.017         0.024         0.018
##           fire      fireirons         first
##          0.101         0.070         0.119
##         first'   fishfootman           fit
##          0.013         0.086         0.013
##         fitted           fix         flame
##          0.035         0.070         0.018
##       flamingo     flamingoes       flapper
##          0.148         0.052         0.035
##       flappers       flashed          flat
##          0.018         0.035         0.038
##       flinging         floor    flowerbeds
##          0.018         0.051         0.070
##        flowers         flown         flung
##          0.038         0.035         0.018
##         flurry     fluttered           fly
##          0.139         0.070         0.101
##         flying        folded       folding
##          0.070         0.031         0.018
##       followed       follows          foot
##          0.113         0.052         0.054
##        footman      footman's     footsteps
##          0.042         0.070         0.013
##            for      forepaws        forget
##          0.130         0.018         0.013
##     forgetting     forgotten          form
##          0.091         0.030         0.018
##    fortunately      forwards         found
##          0.035         0.191         0.170
##      fountains        france          free
##          0.050         0.035         0.011
##        friends        fright     frightened
##          0.221         0.062         0.152
##    frogfootman          from         from'
##          0.070         0.177         0.018
##          front          full       fumbled
##          0.038         0.093         0.035
##            fur       furious     furiously
##          0.041         0.052         0.018
##         furrow       furrows       gallons
##          0.139         0.052         0.018
##           game         game'         games
##          0.195         0.035         0.018
##         garden     gardeners        gather
##          0.128         0.138         0.052
```

```
##                gave           gazing             general
##               0.042            0.087               0.013
##           generally           gently                 get
##               0.128            0.021               0.070
##             getting             give               given
##               0.097            0.042               0.018
##              giving          glanced               glass
##               0.013            0.052               0.100
##               globe          gloomily             gloves
##               0.139            0.035               0.102
##                  go              go'                goes
##               0.062            0.025               0.021
##               going           golden            goldfish
##               0.106            0.146               0.123
##                gone             good       goodnaturedly
##               0.142            0.063               0.087
##               goose              got            graceful
##               0.025            0.141               0.035
##               grand            grass               grave
##               0.013            0.356               0.025
##             gravely           grazed               great
##               0.021            0.070               0.143
##                grew             grey                grin
##               0.018            0.035               0.032
##             grinned         grinning              ground
##               0.011            0.052               0.166
##           groundand             grow             growing
##               0.070            0.026               0.055
##               grown         grumbled             grunted
##               0.086            0.018               0.011
##             gryphon            guard               guess
##               0.171            0.087               0.013
##             guessed           guests          guineapigs
##               0.091            0.241               0.183
##                 had             hair                half
##               0.276            0.041               0.183
##                hall             hand              handed
##               0.106            0.110               0.061
##               hands          hanging              happen
##               0.092            0.211               0.028
##             happens            happy                hard
##               0.040            0.052               0.067
##              hardly             hare              hasn't
##               0.102            0.156               0.013
##               haste             hat'            hatching
##               0.035            0.018               0.035
##                hate           hatter                have
##               0.018            0.140               0.031
##              having               he                he's
##               0.112            0.113               0.025
##                head            heads                hear
##               0.202            0.013               0.165
##               heard          hearing               heart
##               0.038            0.053               0.050
```

##	hearth	hearts	heavy
##	0.052	0.086	0.245
##	hedge	hedgehog	hedgehogs
##	0.038	0.157	0.111
##	hedges'	heels	held
##	0.018	0.191	0.114
##	help	helpless	her
##	0.042	0.070	0.286
##	here'	hers	herself
##	0.017	0.061	0.106
##	hersshe	hide	high
##	0.104	0.018	0.060
##	highest	him	himself
##	0.052	0.088	0.044
##	hint	his	hiss
##	0.050	0.138	0.035
##	history	history'	hit
##	0.048	0.035	0.050
##	hoarse	hoarsely	hold
##	0.041	0.191	0.094
##	holding	hookah	hoping
##	0.041	0.056	0.101
##	hot	hour	hours
##	0.021	0.050	0.044
##	house	how	however
##	0.103	0.067	0.023
##	howled	howling	hung
##	0.104	0.021	0.018
##	hungry	hunting	hurried
##	0.031	0.081	0.195
##	hurriedly	hurry	hurt
##	0.038	0.133	0.021
##	i'd	idea	idea'
##	0.047	0.050	0.018
##	if	ifif	imagine
##	0.019	0.018	0.038
##	immediate	immediately	impatient
##	0.035	0.081	0.018
##	important	important'	impossible
##	0.011	0.018	0.013
##	improve	in	inches
##	0.087	0.332	0.040
##	indeed	indignant	inkstand
##	0.049	0.018	0.018
##	instance	instantly	instead
##	0.041	0.079	0.031
##	interrupted	into	introduced
##	0.036	0.246	0.018
##	inwards	is	is'
##	0.035	0.026	0.031
##	isbe	isoh	istake
##	0.018	0.013	0.070
##	isthe	it	itonce
##	0.018	0.225	0.312

```
##                    its            itself               jar
##                  0.234             0.097             0.035
##                    jaw              jaws         jellyfish
##                  0.035             0.025             0.035
##                   join            joined              joys
##                  0.025             0.013             0.052
##                  judge            jumped           jumping
##                  0.041             0.192             0.018
##                  juror              jury             jury'
##                  0.052             0.102             0.035
##                jurybox          jurybox'           jurymen
##                  0.121             0.018             0.079
##                   just              keep           keeping
##                  0.157             0.117             0.013
##                   kept               key               kid
##                  0.087             0.140             0.110
##                killing             kind'            kindly
##                  0.035             0.018             0.018
##                   king            king's             kings
##                  0.180             0.025             0.018
##                   kiss           kitchen             knave
##                  0.018             0.070             0.071
##                   knee             kneel             knelt
##                  0.179             0.052             0.035
##                   knew          knocking         knocking'
##                  0.115             0.035             0.013
##                  know'           knowing          knuckles
##                  0.012             0.148             0.035
##                  label          labelled             lacie
##                  0.050             0.035             0.018
##                 ladder              lady             lamps
##                  0.035             0.013             0.035
##                   land           languid               lap
##                  0.035             0.035             0.111
##                  large            larger              last
##                  0.179             0.015             0.163
##                 lasted            lastly             laugh
##                  0.035             0.052             0.018
##                laughed          laughing               law
##                  0.099             0.099             0.050
##                    lay            lazily           leaders
##                  0.070             0.018             0.035
##                leaning             leant              leap
##                  0.135             0.018             0.018
##                  least             leave            leaves
##                  0.038             0.041             0.044
##                    led             ledge              left
##                  0.096             0.018             0.127
##                   legs            lessen           lessons
##                  0.141             0.018             0.015
##               lessons'              lest            letter
##                  0.025             0.035             0.031
##                letters           licking               lie
##                  0.070             0.018             0.018
```

```
##             life           like          likes
##            0.029          0.032          0.018
##            limbs           line          lines
##            0.035          0.013          0.018
##           linked           list         listen
##            0.070          0.121          0.044
##         listened      listeners      listening
##            0.104          0.052          0.050
##              lit         little        little'
##            0.035          0.223          0.074
##             live          lived         livery
##            0.040          0.021          0.013
##            lives         lizard       lizard's
##            0.050          0.079          0.312
##           lobster        lobster'       lobsters
##            0.050          0.018          0.015
##             lock         locked          locks
##            0.035          0.052          0.038
##           london           long         longed
##            0.018          0.121          0.013
##             look         looked        looking
##            0.085          0.093          0.099
##     lookingglass        lookout           lory
##            0.070          0.035          0.024
##             lost           loud         loudly
##            0.011          0.040          0.011
##             love       loveliest         lovely
##            0.035          0.035          0.038
##           loving            low         lower'
##            0.052          0.058          0.018
##           lowing        luckily          lying
##            0.312          0.018          0.127
##                m             m'           made
##            0.025          0.050          0.141
##            magic         magpie           make
##            0.018          0.018          0.012
##           making        mallets            man
##            0.026          0.052          0.018
##             man'         manage        managed
##            0.018          0.037          0.011
##         managing         manner           maps
##            0.139          0.013          0.018
##            march        marched       marchjust
##            0.145          0.018          0.018
##             mark         marked      marmalade'
##            0.050          0.026          0.035
##             mary         master         matter
##            0.011          0.021          0.038
##           maybe'           meal          means
##            0.018          0.312          0.036
##            meant      meanwhile        measure
##            0.053          0.018          0.035
##             meet        meeting     melancholy
##            0.038          0.035          0.023
```

```
##       memorandum          memory       mentioned
##            0.035           0.035           0.021
##           mercia          merely          merrily
##            0.013           0.086           0.018
##              met          miceoh          middle
##            0.061           0.018           0.113
##            might         milkjug            mine
##            0.025           0.070           0.017
##            mine'          minute         minutes
##            0.013           0.048           0.051
##         miserable          missed         mistake
##            0.221           0.025           0.011
##            mixed            mock          modern
##            0.312           0.162           0.018
##           moment        moment's           month
##            0.181           0.074           0.013
##             moon           moral          morcar
##            0.035           0.047           0.013
##             more          moreas            most
##            0.117           0.018           0.026
##           mostly           mouse       mousetraps
##            0.018           0.087           0.035
##            mouth            move           moved
##            0.112           0.041           0.053
##             much           much'        muchness
##            0.129           0.048           0.035
##      muchnessdid     muchnessyou       murdering
##            0.035           0.035           0.052
##          muscular        mushroom        mushroom'
##            0.035           0.080           0.018
##             must           must'       muttering
##            0.057           0.018           0.051
##               my         myself'         mystery'
##            0.018           0.013           0.018
##             name           names          names'
##            0.024           0.018           0.035
##             near          nearer          nearly
##            0.119           0.017           0.018
##             neat          neatly            neck
##            0.018           0.013           0.074
##            needs    neighbouring         neither
##            0.052           0.312           0.050
##            never     neverending      newspapers
##            0.019           0.312           0.052
##             next         nibbled        nibbling
##            0.096           0.025           0.061
##           nicely           night         nightair
##            0.111           0.021           0.018
##             nile            nine              no
##            0.087           0.044           0.029
##            noise          noises      northumbria
##            0.041           0.312           0.018
##             nose             not         nothing
##            0.030           0.099           0.022
```

```
##             notice          noticed         noticing
##              0.094            0.032            0.018
##                now          nowhere         nurseand
##              0.022            0.050            0.018
##            nursing          o'clock          obliged
##              0.061            0.011            0.038
##             oblong     occasionally         occurred
##              0.052            0.018            0.018
##                 of              off          officer
##              0.583            0.226            0.070
##           officers      ointmentone              old
##              0.148            0.035            0.015
##               old'           oldest               on
##              0.061            0.035            0.326
##               once              one             ones
##              0.168            0.144            0.070
##            oneself             only             open
##              0.070            0.100            0.172
##             opened      opportunity         opposite
##              0.051            0.041            0.018
##                 or            order           order'
##              0.153            0.050            0.018
##           ordering       ornamented            other
##              0.221            0.050            0.282
##             others        otherwise             ours
##              0.054            0.018            0.018
##                out      outoftheway          outside
##              0.186            0.011            0.021
##           outside'             over         overcome
##              0.070            0.175            0.087
##                owl              own             pack
##              0.052            0.040            0.102
##           painting             pair            pairs
##              0.025            0.063            0.070
##               pale          panther          panting
##              0.036            0.052            0.123
##              paper        parchment         pardoned
##              0.044            0.099            0.035
##              paris             part       particular
##              0.018            0.038            0.021
##          partners'            parts            party
##              0.018            0.139            0.106
##            passage           passed          passing
##              0.057            0.056            0.035
##            passion             past        patriotic
##              0.062            0.035            0.018
##             patted        pattering          pattern
##              0.070            0.011            0.104
##              pause          pebbles           peeped
##              0.025            0.038            0.111
##            peering             pegs            pence
##              0.035            0.018            0.052
##            pencils           people           pepper
##              0.087            0.032            0.044
```

```
##           pepperbox         perfectly            picked
##               0.070             0.027             0.111
##             picking          pictured          pictures
##               0.050             0.052             0.055
##                pie'             piece            pieces
##               0.052             0.088             0.041
##             pigbaby            pigeon              pigs
##               0.312             0.052             0.062
##             pinched              pink             place
##               0.013             0.035             0.166
##              placed        placesall'           plainly
##               0.018             0.018             0.104
##               plate            plates              play
##               0.091             0.270             0.094
##              played           players           playing
##               0.052             0.096             0.013
##            pleasant           pleases          pleasure
##               0.018             0.104             0.062
##             pointed          pointing              pool
##               0.018             0.091             0.150
##             poolshe              poor               pop
##               0.312             0.068             0.035
##                pope        positively          possibly
##               0.035             0.018             0.061
##                pour              pray         presented
##               0.087             0.062             0.018
##           presently           pressed          pressing
##               0.013             0.031             0.018
##             printed           prison'          prisoner
##               0.070             0.018             0.018
##            proceed'        procession       procession'
##               0.018             0.053             0.018
##         processions         producing            proper
##               0.018             0.035             0.011
##           prosecute        protection             prove
##               0.035             0.035             0.018
##              proved         provoking          punching
##               0.013             0.139             0.018
##               puppy           puppy's               put
##               0.172             0.018             0.044
##             putting           puzzled         quadrille
##               0.011             0.051             0.053
##             quarrel        quarrelled       quarrelling
##               0.070             0.018             0.062
##               queen            queen'           queen's
##               0.238             0.018             0.218
##              queens             queer          queerest
##               0.018             0.112             0.018
##        queerlooking          question         question'
##               0.018             0.028             0.018
##             quickly             quiet           quietly
##               0.062             0.050             0.048
##               quite            quiver            rabbit
##               0.117             0.018             0.174
```

```
##           rabbit's         rabbithole         racecourse
##             0.011              0.051              0.018
##            raising                ran            rapidly
##             0.052              0.133              0.025
##             rapped               rate             rather
##             0.035              0.014              0.036
##            rathole             rattle           rattling
##             0.035              0.312              0.245
##             ravens              reach           reaching
##             0.052              0.096              0.018
##               read            reading              ready
##             0.040              0.041              0.020
##               real          realitythe             reason
##             0.031              0.312              0.060
##         recognised          recovered                red
##             0.018              0.074              0.050
##            reduced           reedsthe       refreshments
##             0.052              0.312              0.052
##             refused           relieved           remained
##             0.018              0.018              0.081
##          remaining         remarkable          remarking
##             0.035              0.013              0.081
##           remedies'       remembering          reminding
##             0.035              0.052              0.139
##           removed'             repeat           repeated
##             0.035              0.072              0.029
##          repeating              reply           resource
##             0.061              0.025              0.018
##               rest            resting             retire
##             0.166              0.099              0.018
##           returned          returning              ridge
##             0.025              0.018              0.139
##             ridges              right             right'
##             0.052              0.070              0.081
##          righthand               ring              riper
##             0.038              0.013              0.052
##           rippling             rising             roared
##             0.312              0.035              0.018
##               rock               rome             romeno
##             0.018              0.018              0.018
##               roof               room              roots
##             0.100              0.040              0.018
##               rose              roses           rosetree
##             0.070              0.031              0.088
##              round                row              royal
##             0.156              0.035              0.062
##             rubbed            rubbing           rudeness
##             0.018              0.025              0.087
##              rules           rumbling                run
##             0.081              0.035              0.122
##            running               rush             rushed
##             0.118              0.135              0.191
##            rustled           rustling              sadly
##             0.312              0.312              0.040
```

```
##          safe            sage            said
##          0.025           0.035           0.070
##          said'           salmon          same
##          0.018           0.035           0.148
##          sang            sat             saucepans
##          0.086           0.206           0.070
##          save            saw             say
##          0.018           0.090           0.029
##          say'            saying          scale
##          0.027           0.052           0.087
##          scrambling      scratching      scream
##          0.018           0.018           0.038
##          screaming       scroll          sea'
##          0.035           0.099           0.025
##          seaography      seashore'       seated
##          0.018           0.018           0.087
##          second          secondly        see
##          0.079           0.025           0.071
##          seeing          seem            seemed
##          0.018           0.038           0.132
##          seen            seeneverything  sell
##          0.036           0.087           0.035
##          send            sends           sense
##          0.139           0.018           0.051
##          sentence        sentenced       series
##          0.040           0.070           0.191
##          serpents        set             setting
##          0.021           0.081           0.104
##          settle          settled         severely
##          0.018           0.041           0.053
##          shade           shaped          shared
##          0.087           0.086           0.312
##          sharing         sharp           she
##          0.052           0.072           0.314
##          shedding        sheepbells      shelves
##          0.018           0.312           0.035
##          shepherd        shifting        shilling
##          0.312           0.052           0.035
##          shillings       shinglewill     shining
##          0.052           0.018           0.087
##          shock           shook           shore
##          0.087           0.031           0.031
##          short           shorter         shoulder
##          0.131           0.038           0.027
##          shouted         shouting        shower
##          0.013           0.062           0.074
##          shriek          shrill          shrinking
##          0.319           0.326           0.029
##          shut            shutting        side
##          0.110           0.038           0.126
##          sides           sighed          sighing
##          0.018           0.017           0.011
##          sight           sign            signifies
##          0.100           0.018           0.018
```

```
##             silent          simple          simply
##              0.060           0.053           0.038
##         simplynever           since         singers
##              0.018           0.036           0.123
##                sink            sir'          sister
##              0.018           0.031           0.081
##            sister's         sisters'             sit
##              0.104           0.018           0.051
##                sits         sitting        sixpence
##              0.018           0.133           0.035
##                size        skimming           skirt
##              0.018           0.070           0.139
##             skurried            sky           slate
##              0.070           0.096           0.052
##          slatepencil          slates       slightest
##              0.312           0.047           0.018
##             slippery          slowly        sluggard'
##              0.104           0.051           0.035
##               small        smallest           smile
##              0.068           0.062           0.038
##               smoke         smoking           snail
##              0.087           0.050           0.011
##              snatch          sneeze         sneezed
##              0.025           0.258           0.018
##             sneezes        sneezing        snorting
##              0.074           0.164           0.018
##               snout              so            soand
##              0.018           0.141           0.070
##             sobbing            sobs            soft
##              0.038           0.304           0.018
##             soldier         soldiers          solemn
##              0.087           0.157           0.071
##            solemnly           solid            some
##              0.036           0.018           0.070
##            somebody         someone            song
##              0.023           0.018           0.080
##                soon          sooner          sorrow
##              0.066           0.013           0.013
##             sorrows            sort            sort'
##              0.052           0.016           0.018
##               sorts           sound         sounded
##              0.031           0.025           0.056
##              sounds            soup           speak
##              0.031           0.039           0.018
##            speakand        speaking      spectacles
##              0.070           0.018           0.011
##               spite        splashed      splendidly
##              0.018           0.312           0.018
##                spot       sprawling          spread
##              0.018           0.139           0.011
##            squeaking        stamping           stand
##              0.209           0.050           0.017
##            standing          staring         started
##              0.087           0.141           0.074
```

```
##         startled          steady      steamengine
##            0.013           0.018            0.018
##            stick         stigand            still
##            0.191           0.018            0.076
##         stirring           stole            stood
##            0.099           0.038            0.054
##            stool         stopped         straight
##            0.087           0.021            0.050
##      straightened   straightening          strange
##            0.139           0.018            0.102
##         strength        stretched           struck
##            0.035           0.038            0.062
##           stuff'          stupid         stupidly
##            0.052           0.038            0.087
##         subject'        subjects        submitted
##            0.018           0.018            0.035
##        succeeded            such           sudden
##            0.111           0.056            0.017
##         suddenly            suet            sugar
##            0.033           0.052            0.052
##             suit         sulkily           summer
##            0.011           0.025            0.074
##              sun          supple       suppressed
##            0.074           0.035            0.200
##         surprise       surprised             swam
##            0.048           0.030            0.025
##             swim           table             tail
##            0.029           0.170            0.054
##             take           taken            takes
##            0.097           0.096            0.038
##           taking            tale          talking
##            0.063           0.044            0.037
##           taller           tarts            taste
##            0.038           0.088            0.038
##              tea            tea'         teaching
##            0.021           0.062            0.018
##           teacup         teacups           teanot
##            0.031           0.441            0.070
##         teaparty          teapot          teatray
##            0.038           0.087            0.035
##       telescopes           tells              ten
##            0.070           0.013            0.060
##          terribly            than          thanked
##            0.018           0.079            0.018
##             that          that's         thatched
##            0.167           0.028            0.070
##         thatonly           their           theirs
##            0.018           0.155            0.070
##             them           them'           them'i
##            0.127           0.018            0.052
##          themall         themand       themselves
##            0.087           0.038            0.071
##             then         thenshe            there
##            0.137           0.070            0.095
```

```
##            they          they'd          thimble
##           0.169           0.031            0.025
##         thinand           thing            thing'
##           0.070           0.094            0.051
##          things         things'          thinking
##           0.039           0.018            0.101
##            this         thistle        thoroughly
##           0.136           0.191            0.062
##           those          though           thought
##           0.057           0.173            0.028
##        thoughts        thousand             three
##           0.025           0.025            0.136
##      threelegged          throat           throat'
##           0.074           0.018            0.018
##          throne         through          throwing
##           0.087           0.159            0.062
##         thunder            tidy              till
##           0.018           0.070            0.147
##          tillie            time             time'
##           0.018           0.193            0.048
##           timid        tinkling              tiny
##           0.038           0.312            0.088
##          tipped          tiptoe             tired
##           0.139           0.025            0.041
##        tittered              to          together
##           0.018           0.386            0.019
##       tomorrow'            tone             tones
##           0.070           0.026            0.104
##          tongue             too              took
##           0.070           0.090            0.144
##             top            tops              toss
##           0.075           0.035            0.104
##         tossing            toto            tougher
##           0.061           0.018            0.052
##        trampled            tree             trees
##           0.191           0.086            0.093
##         tremble        trembled         trembling
##           0.070           0.025            0.058
##           trial         trial's            trials
##           0.041           0.011            0.052
##          tricks           tried      triumphantly
##           0.018           0.073            0.025
##            trot        trotting           trouble
##           0.018           0.025            0.023
##            true         trumpet               try
##           0.052           0.111            0.033
##          trying          tucked           tumbled
##           0.094           0.071            0.191
##          turned           turns            turnup
##           0.050           0.041            0.018
##          turtle         turtle's           turtles
##           0.115           0.221            0.038
##          twelve       twentieth        twentyfour
##           0.027           0.052            0.018
```

```
##            twice           twinkle          twinkled
##            0.088             0.010             0.018
##         twinkling             twist               two
##            0.057             0.139             0.065
##       uglification            unable            uncivil
##            0.018             0.035             0.018
##     uncomfortable     uncomfortably        uncommonly
##            0.053             0.018             0.035
##             under        underneath        understood
##            0.180             0.035             0.052
##         undertone          uneasily       unfortunate
##            0.013             0.025             0.245
##           unhappy            unjust         unlocking
##            0.025             0.018             0.035
##          unrolled           untwist       unwillingly
##            0.135             0.018             0.070
##                up              upon             upset
##            0.256             0.090             0.171
##         upsetting          upstairs                us
##            0.139             0.035             0.020
##               use              used             using
##            0.039             0.032             0.052
##       usurpation             vague          vanished
##            0.035             0.035             0.079
##            velvet          verdict'             verse
##            0.035             0.041             0.074
##            verse'            verses              very
##            0.050             0.036             0.133
##          violence           violent         violently
##            0.018             0.025             0.096
##             voice            voices            waist'
##            0.232             0.013             0.018
##   waistcoatpocket            waited           waiting
##            0.035             0.021             0.088
##            walked           walking          wandered
##            0.101             0.102             0.025
##         wandering            wanted          warning'
##            0.099             0.096             0.018
##               was              wash      washingextra
##            0.331             0.038             0.018
##            wasn't           wasting             watch
##            0.013             0.013             0.013
##           watched          watching            waters
##            0.038             0.081             0.087
##            waving               way              way'
##            0.151             0.205             0.035
##             we've              weak              week
##            0.038             0.038             0.131
##             well'              went              were
##            0.031             0.110             0.242
##              what              when         whereupon
##            0.057             0.159             0.191
##          wherever           whether             which
##            0.139             0.075             0.099
```

```
##              while             whiles            whistle
##              0.259              0.018              0.018
##              white           whiting'                who
##              0.197              0.038              0.102
##              whole               whom              whose
##              0.132              0.070              0.050
##               wife                wig             wildly
##              0.035              0.038              0.099
##               will            william            william'
##              0.010              0.027              0.031
##                win               wind             window
##              0.018              0.221              0.057
##              wings               with              with'
##              0.035              0.324              0.013
##             within            without            witness
##              0.070              0.057              0.071
##           witness'               woke              woman
##              0.052              0.035              0.052
##             won't'          wonderful          wondering
##              0.035              0.062              0.041
##         wonderland               wood              wood'
##              0.211              0.060              0.052
##               word              words               wore
##              0.038              0.138              0.052
##               work              world              worry
##              0.094              0.047              0.191
##              worse              would           wrapping
##              0.081              0.230              0.018
##           wriggling              write            writhing
##              0.052              0.063              0.018
##        writingdesks              wrong              wrote
##              0.052              0.040              0.041
##              yards             yawned            yawning
##              0.018              0.025              0.013
##              years             yelled               yelp
##              0.052              0.018              0.191
##               yet'               you'             you've
##              0.025              0.041              0.032
##              youth             youth'             zigzag
##              0.061              0.041              0.035
```

```r
with(dat, word_cor(text, word=c("she", "said", "the"), r = .3))
```

```
## $she
##     and       as    found      had      her  herself       it   little       of
##   0.467    0.350    0.357    0.386    0.440    0.402    0.348    0.328    0.361
##    that      the       to      was
##   0.315    0.314    0.445    0.455
##
## $said
## NULL
##
## $the
##             and          believed           boyand            bythe           cattle
```

```
##          0.548          0.312          0.312          0.312          0.312
##         choking        clamour        crashed           cries executiononce
##          0.312          0.312          0.312          0.312          0.312
## farmyardwhile           grass             in         itonce        lizard's
##          0.312          0.356          0.332          0.312          0.312
##          lowing           meal          mixed    neighbouring    neverending
##          0.312          0.312          0.312          0.312          0.312
##          noises             of             on        pigbaby        poolshe
##          0.312          0.583          0.326          0.312          0.312
##          rattle      realitythe       reedsthe       rippling        rustled
##          0.312          0.312          0.312          0.312          0.312
##        rustling         shared            she     sheepbells       shepherd
##          0.312          0.312          0.314          0.312          0.312
##          shriek         shrill     slatepencil           sobs       splashed
##          0.319          0.326          0.312          0.304          0.312
##         teacups       tinkling             to            was           with
##          0.441          0.312          0.386          0.331          0.324
```

```r
with(dat, word_cor(text, word=c("she", "said", "the"), r = NULL))
```

```
##         she   said   the
## she   1.000 -0.036 0.314
## said -0.036  1.000 0.070
## the   0.314  0.070 1.000
```

```r
with(dat, word_cor(text, word=freq_terms(alice)[["WORD"]], r = .2))
```

```
## $the
##             a           all           and        around            as
##         0.256         0.267         0.548         0.294         0.221
##            at          back      believed        boyand          busy
##         0.280         0.244         0.312         0.312         0.221
##         bythe        cattle        change        choking       clamour
##         0.312         0.312         0.251         0.312         0.312
##        closed       crashed          cries        dishes        distant
##         0.245         0.312         0.312         0.270         0.221
##          door      duchess's          dull executiononce farmyardwhile
##         0.225         0.231         0.211         0.312         0.312
##          feet       friends         grass        guests           had
##         0.204         0.221         0.356         0.241         0.276
##       hanging          head         heavy           her            in
##         0.211         0.202         0.245         0.286         0.332
##          into            it        itonce           its        little
##         0.246         0.225         0.312         0.234         0.223
##      lizard's        lowing          meal      miserable         mixed
##         0.312         0.312         0.312         0.221         0.312
##  neighbouring   neverending        noises            of           off
##         0.312         0.312         0.312         0.583         0.226
##            on      ordering         other       pigbaby        plates
##         0.326         0.221         0.282         0.312         0.270
##       poolshe         queen       queen's        rattle      rattling
##         0.312         0.238         0.218         0.312         0.245
##     realitythe      reedsthe      rippling       rustled      rustling
```

47

```
##          0.312          0.312          0.312          0.312          0.312
##            sat         shared            she     sheepbells       shepherd
##          0.206          0.312          0.314          0.312          0.312
##         shriek         shrill     slatepencil        sneeze           sobs
##          0.319          0.326          0.312          0.258          0.304
##       splashed       squeaking      suppressed        teacups       tinkling
##          0.312          0.209          0.200          0.441          0.312
##             to       turtle's     unfortunate             up          voice
##          0.386          0.221          0.245          0.256          0.232
##            was            way           were          while           wind
##          0.331          0.205          0.242          0.259          0.221
##           with      wonderland          would
##          0.324          0.211          0.230
##
## $and
##              a            all             as             at           away           back        barking
##          0.406          0.307          0.268          0.269          0.207          0.211          0.225
##          began      carthorse        charges         dodged           down          eager          every
##          0.213          0.225          0.225          0.225          0.202          0.207          0.232
##           eyes           feet       forwards          found            had        hanging           head
##          0.240          0.216          0.225          0.218          0.333          0.222          0.255
##          heels            her        herself       hoarsely             in           into             it
##          0.225          0.420          0.211          0.225          0.332          0.211          0.332
##            its        knowing         little           long             of            off             on
##          0.334          0.225          0.326          0.203          0.457          0.210          0.320
##          other            out          puppy         rushed            sat         series            she
##          0.269          0.269          0.213          0.225          0.228          0.225          0.467
##         simple          stick        strange           that            the          their           then
##          0.220          0.225          0.256          0.235          0.548          0.208          0.292
##           this        thistle             to       trampled        tumbled          under             up
##          0.213          0.225          0.429          0.225          0.225          0.248          0.309
##           very            was           went           were           when      whereupon          while
##          0.215          0.386          0.202          0.228          0.209          0.225          0.230
##           with          worry           yelp
##          0.387          0.225          0.225
##
## $to
##              a            act          alice            and             as
##          0.290          0.211          0.251          0.429          0.212
##             be           body       bursting            but          chief
##          0.293          0.207          0.211          0.291          0.211
##    comfortably     conclusion       crawling       doubledup     expression
##          0.211          0.211          0.211          0.211          0.211
##           find         furrow      generally          going            had
##          0.227          0.211          0.214          0.218          0.298
##        hanging       hedgehog            her        herself             in
##          0.217          0.224          0.319          0.321          0.266
##             it            its       managing             of            out
##          0.354          0.233          0.211          0.327          0.207
##          parts      provoking          ridge         seemed           send
##          0.211          0.211          0.211          0.274          0.211
##            she             so     straightened          that            the
##          0.445          0.230          0.211          0.289          0.386
##           this          twist           very            was            way
```

```
##       0.204          0.211          0.241          0.406          0.242
##    wherever           with          would
##       0.211          0.241          0.208
##
## $a
##        and            at       barking  carthorse      charges     delight      dodged
##      0.406         0.241         0.282      0.282        0.282       0.244       0.282
##       each      forwards         going      great          had     hanging       heels
##      0.204         0.282         0.226      0.216        0.213       0.263       0.282
##   hoarsely          hold         hurry         in         into          it         its
##      0.282         0.222         0.237      0.373        0.220       0.293       0.334
##    knowing         large        little       made       moment          of          on
##      0.214         0.216         0.348      0.252        0.209       0.327       0.218
##      other         puppy          rush     rushed       series         she       stick
##      0.283         0.268         0.238      0.282        0.282       0.291       0.282
##       such           the       thistle         to     trampled     tumbled       under
##      0.236         0.256         0.282      0.290        0.282       0.282       0.272
##        was           way     whereupon       with        worry        yelp
##      0.317         0.210         0.282      0.349        0.282       0.282
##
## $she
##          a         about           and         as           at         but
##      0.291         0.221         0.467      0.350        0.202       0.297
##      climb         could          down       felt          for       found
##      0.267         0.284         0.202      0.231        0.206       0.357
##        had           her       herself         in           it        just
##      0.386         0.440         0.402      0.283        0.348       0.237
##       knew          legs        little       made           of         out
##      0.205         0.232         0.328      0.245        0.361       0.282
##    plainly       rapidly    remembered   shrinking     slippery          so
##      0.267         0.204         0.227      0.210        0.267       0.246
##      table          that           the         to           up        very
##      0.210         0.315         0.314      0.445        0.266       0.243
##        was          when         would
##      0.455         0.221         0.209
##
## $of
##              a           all           and       around            at
##          0.327         0.251         0.457        0.270         0.239
##        barking      believed        boyand        bythe     carthorse
##          0.209         0.246         0.246        0.209         0.209
##         cattle       charges        choking      clamour        closed
##          0.246         0.209         0.209        0.246         0.218
##        crashed         cries        dodged executiononce          eyes
##          0.209         0.246         0.209        0.209         0.243
## farmyardwhile      forwards         grass          had        having
##          0.246         0.209         0.236        0.245         0.201
##          heels           her      hoarsely           in          into
##          0.209         0.350         0.209        0.255         0.232
##             it        itonce           its       little      lizard's
##          0.230         0.209         0.232        0.274         0.209
##         lowing          meal         mixed neighbouring   neverending
##          0.246         0.209         0.209        0.209         0.209
##         noises            on         other          out       pigbaby
```

```
##        0.246        0.225        0.241        0.223        0.209
##       poolshe       rattle     rattling    realitythe     reedsthe
##        0.209        0.209        0.218        0.246        0.246
##      rippling       rushed      rustled     rustling       seemed
##        0.246        0.209        0.209        0.246        0.227
##        series       shared          she   sheepbells     shepherd
##        0.209        0.209        0.361        0.246        0.246
##        shriek       shrill  slatepencil         sobs     splashed
##        0.288        0.206        0.209        0.217        0.209
##         stick      teacups          the         them      thistle
##        0.209        0.322        0.583        0.228        0.209
##      tinkling           to     trampled      tumbled           up
##        0.246        0.327        0.209        0.209        0.214
##           was    whereupon         with   wonderland        worry
##        0.251        0.209        0.268        0.215        0.209
##         would         yelp
##        0.252        0.209
##
## $said
##     '  king
## 0.240 0.214
##
## $it
##     a   and    as    at   but   had   its    of   out quite   she  that
## 0.293 0.332 0.231 0.225 0.232 0.265 0.239 0.230 0.209 0.210 0.348 0.236
##   the    to under   was
## 0.225 0.354 0.224 0.375
##
## $alice
## thought       to   very
##   0.268    0.251    0.237
##
## $`in`
##           a          act          and     bursting        chief
##       0.373        0.235        0.332        0.235        0.235
##  comfortably   conclusion     crawling   difficulty    doubledup
##       0.235        0.235        0.235        0.201        0.235
##   expression       furrow          had     hedgehog          her
##       0.235        0.235        0.225        0.261        0.241
##        hurry      jurybox     managing           of        other
##       0.218        0.209        0.235        0.255        0.262
##        parts    provoking        ridge         send          she
##       0.235        0.235        0.235        0.235        0.283
## straightened    succeeded          the           to         tone
##       0.235        0.266        0.332        0.266        0.277
##        twist          was     wherever         with
##       0.235        0.276        0.235        0.232
##
## $was
##           a          act          and           as           at
##       0.317        0.307        0.386        0.241        0.200
##         blow         body     bursting          but           by
##       0.211        0.275        0.307        0.263        0.201
##        chief  comfortably   conclusion     crawling    difficult
```

```
##       0.307       0.307       0.307       0.307       0.243
## difficulty  doubledup  expression       face       first
##       0.276       0.307       0.307       0.217       0.231
##   flamingo       found     furrow  generally     getting
##       0.202       0.205       0.307       0.250       0.215
##      going      ground        had    hanging   hedgehog
##       0.298       0.208       0.281       0.271       0.299
##        her          in         it        its       just
##       0.308       0.276       0.375       0.224       0.232
##    laughing        legs   managing     nicely         of
##       0.211       0.219       0.307       0.211       0.251
##      parts   provoking    puzzled    rapidly      ridge
##       0.307       0.307       0.230       0.211       0.307
##       send         she   shrinking straightened  succeeded
##       0.307       0.455       0.207       0.307       0.219
##       that         the      there       this         to
##       0.323       0.331       0.308       0.220       0.406
##      twist    unrolled         up       very    walking
##       0.307       0.211       0.269       0.208       0.202
##       when    wherever      which
##       0.221       0.307       0.210
##
## $you
##    bleeds      burnt      dance   disagree      eaten histories       join
##     0.226      0.226      0.269      0.226      0.226      0.226      0.304
##     knife      later     poison      poker     redhot    usually       will
##     0.226      0.226      0.226      0.226      0.226      0.226      0.443
##     won't
##     0.406
##
## $i
##       'ii         am      can't presentat       say'      shyly      think
##     0.236      0.234      0.205      0.236      0.228      0.236      0.242
##      wish
##     0.215
##
## $as
##   and could   her    it  just   she   the    to   was  well
## 0.268 0.296 0.205 0.231 0.219 0.350 0.221 0.212 0.241 0.308
##
## $her
## adventures      alive     always        and     around         as
##      0.285      0.308      0.217      0.420      0.448      0.205
##     became     bright        but    clasped      dream    dreamed
##      0.382      0.297      0.203      0.547      0.477      0.547
##   dreaming      eager       eyes    eyesand       face    fashion
##      0.547      0.415      0.228      0.547      0.204      0.382
##        had       hair       hand      hands       head       hers
##      0.232      0.244      0.201      0.324      0.373      0.202
##    hersshe         in       into       keep       knee        lap
##      0.547      0.241      0.278      0.227      0.274      0.219
##    leaning     listen   listened     little         of     seemed
##      0.382      0.248      0.547      0.336      0.350      0.227
##    setting        she     sister   sister's      still     strange
```

```
##      0.547      0.440      0.398      0.547      0.337      0.440
##   succeeded        sun       that        the       tiny         to
##      0.202      0.382      0.237      0.286      0.310      0.319
##      tones       toss         up       upon  wandering        was
##      0.547      0.547      0.207      0.218      0.480      0.308
##   watching      whole       with  wonderful
##      0.335      0.231      0.205      0.382
##
## $that
##           and barleysugar bitterandand    camomile         had
##         0.235       0.222        0.222       0.222       0.291
##           her hottempered'         into          it         she
##         0.237       0.222        0.204       0.236       0.315
##            so     sourand sweettempered          to     vinegar
##         0.214       0.222        0.222       0.289       0.222
##      violence         was withoutmaybe
##         0.222       0.323        0.222
##
## $at
##          a        all        and    barking  carthorse    charges     dodged
##      0.241      0.245      0.269      0.325      0.325      0.325      0.325
##       each   forwards    hanging      heels       held   hoarsely         it
##      0.205      0.325      0.217      0.325      0.217      0.325      0.225
##        its    knowing       last     looked       made     moment         of
##      0.267      0.271      0.304      0.214      0.213      0.215      0.239
##       once        out    panting      puppy       rush     rushed     series
##      0.261      0.210      0.224      0.318      0.271      0.325      0.325
##        she      short      stick        the       then    thistle   trampled
##      0.202      0.217      0.325      0.280      0.215      0.325      0.325
##    tumbled        was  whereupon      worry       yelp
##      0.325      0.200      0.325      0.325      0.325
##
## $on
##           a        and beautifully        eye     follows     letters
##       0.218      0.320       0.235      0.216       0.201       0.201
##       lying         of   parchment    printed      scroll  telescopes
##       0.222      0.225       0.235      0.201       0.235       0.201
##         the    trumpet        went
##       0.326      0.228       0.401
##
## $had
##           a        act        and       been      bleeds
##       0.213      0.204      0.333      0.265      0.274
##        body      burnt    bursting    ceiling       chief
##       0.238      0.274      0.204      0.204       0.204
## comfortably conclusion   crawling    curving    disagree
##       0.204      0.204      0.204      0.204       0.274
##        dive   doubledup      eaten   expected  expression
##       0.204      0.204      0.274      0.204       0.204
##       flown     furrow    graceful        her        hiss
##       0.204      0.204      0.204      0.232       0.204
##   histories         in         it      knife       later
##       0.274      0.225      0.265      0.274       0.274
##    managing         of      parts     poison       poker
```

```
##       0.204           0.245           0.204           0.274           0.274
##     pressing       provoking          redhot           ridge            save
##       0.204           0.204           0.274           0.204           0.204
##         send             she          sooner     straightened       succeeded
##       0.204           0.386           0.338           0.204           0.272
##         that             the              to            tops           twist
##       0.291           0.276           0.298           0.204           0.204
##      usually             was        wherever           wings          zigzag
##       0.274           0.281           0.204           0.204           0.204
##
## $with
##         'off               a             act       aftertime             ago
##       0.228           0.349           0.204           0.204           0.204
##          and          arrived        assembled         barking          beasts
##       0.387           0.204           0.238           0.204           0.238
##      bursting        carthorse          chains         charges           chief
##       0.204           0.204           0.204           0.204           0.204
##     childhood        childlife     comfortably      conclusion        crawling
##       0.204           0.204           0.204           0.204           0.204
##        dodged        doubledup      expression            eyes        forwards
##       0.204           0.204           0.204           0.242           0.204
##        furrow           gather           guard         hanging           happy
##       0.204           0.204           0.204           0.231           0.204
##          head         hedgehog           heels             her        hoarsely
##       0.202           0.223           0.204           0.205           0.204
##            in             its            joys          lastly          little
##       0.232           0.296           0.204           0.204           0.209
##        loving         managing              of           other           parts
##       0.204           0.204           0.268           0.232           0.204
##      pictured        provoking           puppy     remembering           ridge
##       0.204           0.204           0.205           0.204           0.204
##         riper           rushed          seated            send          series
##       0.204           0.204           0.204           0.204           0.204
##        simple          soldier         sorrows        standing           stick
##       0.222           0.204           0.204           0.204           0.204
## straightened            the          themall         thistle          throne
##       0.204           0.324           0.204           0.204           0.204
##            to         trampled         tumbled           twist       whereupon
##       0.241           0.204           0.204           0.204           0.204
##      wherever            woman           worry           years            yelp
##       0.204           0.204           0.204           0.204           0.204
```

```r
with(dat, word_cor(text, word=freq_terms(alice)[["WORD"]], r = NULL))
```

```
##           the    and    to      a    she     of   said    it  alice     in    was    you      i     as
## the     1.000  0.548 0.386  0.256  0.314  0.583  0.070 0.225  0.059  0.332  0.331 -0.020 -0.045  0.221
## and     0.548  1.000 0.429  0.406  0.467  0.457 -0.053 0.332  0.144  0.332  0.386  0.007 -0.042  0.268
## to      0.386  0.429 1.000  0.290  0.445  0.327  0.061 0.354  0.251  0.266  0.406  0.033  0.044  0.212
## a       0.256  0.406 0.290  1.000  0.291  0.327  0.015 0.293  0.143  0.373  0.317  0.045  0.004  0.149
## she     0.314  0.467 0.445  0.291  1.000  0.361 -0.036 0.348  0.161  0.283  0.455 -0.038 -0.049  0.350
## of      0.583  0.457 0.327  0.327  0.361  1.000 -0.054 0.230  0.085  0.255  0.251 -0.056 -0.040  0.195
## said    0.070 -0.053 0.061  0.015 -0.036 -0.054  1.000 0.001  0.195  0.001 -0.079  0.050 -0.033  0.033
## it      0.225  0.332 0.354  0.293  0.348  0.230  0.001 1.000  0.124  0.177  0.375  0.044  0.023  0.231
## alice   0.059  0.144 0.251  0.143  0.161  0.085  0.195 0.124  1.000  0.118  0.162 -0.034  0.008  0.129
```

```
## in     0.332  0.332 0.266 0.373  0.283  0.255  0.001 0.177  0.118  1.000  0.276 -0.057  0.027 0.127
## was    0.331  0.386 0.406 0.317  0.455  0.251 -0.079 0.375  0.162  0.276  1.000 -0.052 -0.019 0.241
## you   -0.020  0.007 0.033 0.045 -0.038 -0.056  0.050 0.044 -0.034 -0.057 -0.052  1.000  0.067 0.021
## i     -0.045 -0.042 0.044 0.004 -0.049 -0.040 -0.033 0.023  0.008  0.027 -0.019  0.067  1.000 0.049
## as     0.221  0.268 0.212 0.149  0.350  0.195  0.033 0.231  0.129  0.127  0.241  0.021  0.049 1.000
## her    0.286  0.420 0.319 0.193  0.440  0.350 -0.010 0.144  0.176  0.241  0.308 -0.037 -0.045 0.205
## that   0.167  0.235 0.289 0.168  0.315  0.198  0.004 0.236  0.103  0.193  0.323  0.082  0.038 0.103
## at     0.280  0.269 0.194 0.241  0.202  0.239  0.020 0.225  0.130  0.158  0.200 -0.034  0.025 0.071
## on     0.326  0.320 0.179 0.218  0.191  0.225 -0.034 0.128  0.044  0.109  0.180  0.045 -0.038 0.164
## had    0.276  0.333 0.298 0.213  0.386  0.245 -0.036 0.265  0.125  0.225  0.281  0.044 -0.034 0.156
## with   0.324  0.387 0.241 0.349  0.166  0.268  0.002 0.199  0.083  0.232  0.176  0.028 -0.037 0.122
```