Package 'dummy'

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Type Package

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Author Tyler Rinker

Title Tools for being a dummy

Maintainer Tyler Rinker < tyler.rinker@gmail.com>

Description This is where I test things and don't worry about it all going bad.

Depends R (>= 2.15)	
License GPL-2	
Collate 'blah.R' 'guy.R' 'dummy-package.R' 'unnamed.R' 'pos.R' 'bracketX.R' 'termco.a.R' 'gantt.R' 'gantt_plot.R' 'gantt_rep.	R''gantt_wrap.R''kulll
R topics documented:	
automated_readability_index bracketX fun1 gantt gantt_plot gantt_rep gantt_wrap kullback.leibler metaDAT pos print.POS print.POSby	3 5 5 7 8 9 11 12 12 14
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Description

automated_readability_index - Apply Automated Readability Index to transcript(s) by zero or more grouping variable(s).

coleman_liau - Apply Coleman Liau Index to transcript(s) by zero or more grouping variable(s).

SMOG - Apply SMOG Readability to transcript(s) by zero or more grouping variable(s).

flesch_kincaid - Flesch-Kincaid Readability to transcript(s) by zero or more grouping variable(s).

fry - Apply Fry Readability to transcript(s) by zero or more grouping variable(s).

linsear_write - Apply Linsear Write Readability to transcript(s) by zero or more grouping variable(s).

Usage

```
automated_readability_index(text.var,
   grouping.var = NULL, rm.incomplete = FALSE, ...)

coleman_liau(text.var, grouping.var = NULL,
   rm.incomplete = FALSE, ...)

SMOG(text.var, grouping.var = NULL, output = "valid",
   rm.incomplete = FALSE, ...)

flesch_kincaid(text.var, grouping.var = NULL,
   rm.incomplete = FALSE, ...)

fry(text.var, grouping.var = NULL, labels = "automatic",
   rm.incomplete = FALSE, ...)

linsear_write(text.var, grouping.var = NULL,
   rm.incomplete = FALSE, ...)
```

Arguments

text.var	The text variable
grouping.var	The grouping variables. Default NULL generates one word list for all text. Also takes a single grouping variable or a list of 1 or more grouping variables.
rm.incomplete	logical. If TRUE removes incomplete sentences from the analysis.
	Other arguments passed to endf.
output	A character vector character string indicating output type. One of "valid" (default and congruent with McLaughlin's intent) or "all".
labels	A character vector character string indicating output type. One of "automatic" (default; adds labels automatically) or "click" (interactive).

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Value

Generates a dataframe with selected readability statistic by grouping variable(s). The frey function returns a graphic representation of the readability.

Note

Many of the indeices (e.g. Automated Readability Index) are derived from word difficulty (letters per word) and sentence difficulty (words per sentence). If you have not run the sentSplit function on your data the results may not be accurate.

References

Coleman, M. & Liau, T. L. (1975). A computer readability formula designed for machine scoring. Journal of Applied Psychology, Vol. 60, pp. 283-284.

Flesch R. (1948). A new readability yardstick. Journal of Applied Psychology. Vol. 32(3), pp. 221-233. doi: 10.1037/h0057532.

Gunning, T. G. (2003). Building Literacy in the Content Areas. Boston: Allyn & Bacon.

McLaughlin, G. H. (1969). SMOG Grading: A New Readability Formula. Journal of Reading, Vol. 12(8), pp. 639-646.

Senter, R. J., & Smith, E. A.. (1967) Automated readability index. Technical Report AMRLTR-66-220, University of Cincinnati, Cincinnati, Ohio.

Examples

```
## Not run:
with(rajSPLIT, automated_readability_index(dialogue, list(person, act)))
with(rajSPLIT, automated_readability_index(dialogue, list(sex, fam.aff)))
with(rajSPLIT, coleman_liau(dialogue, list(person, act)))
with(rajSPLIT, coleman_liau(dialogue, list(sex, fam.aff)))
with(rajSPLIT, SMOG(dialogue, list(person, act)))
with(rajSPLIT, SMOG(dialogue, list(sex, fam.aff)))
with(rajSPLIT, flesch_kincaid(dialogue, list(person, act)))
with(rajSPLIT, flesch_kincaid(dialogue, list(sex, fam.aff)))

(x <- with(rajSPLIT, fry(dialogue, list(sex, fam.aff)))
with(rajSPLIT, fry(dialogue, list(sex, fam.aff), labels = "click"))
with(rajSPLIT, linsear_write(dialogue, list(person, act)))
with(rajSPLIT, linsear_write(dialogue, list(sex, fam.aff)))
## End(Not run)</pre>
```

bracketX

Bracket Parsing

Description

bracket X - Apply bracket removal to character vectors.

bracketXtract - Apply bracket extraction to character vectors.

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Usage

```
bracketX(text.var, bracket = "all", missing = NULL,
    names = FALSE)
bracketXtract(text.var, bracket = "all", with = FALSE)
```

Arguments

text.var	The text variable
bracket	The type of bracket (and encased text) to remove. This is one of the strings "curly", "square", "round", "angle" and "all". These strings correspond to: {, [, (, < or all four types.
missing	Value to assign to empty cells.
names	logical. If TRUE the sentences are given as the names of the counts.
with	logical. If TRUE returns the brackets and the bracketted text.

Value

bracketX returns a vector of text with brackets removed.

bracketXtract returns a list of vectors of bracketed text.

Author(s)

Martin Morgan and Tyler Rinker <tyler.rinker@gmail.com>.

References

http://stackoverflow.com/questions/8621066/remove-text-inside-brackets-parens-and-or-braces

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fun1 Readabiltiy stat

Description

```
fun1 - blah 2
fun2 - blah2
fun3 - blah 3
```

Usage

```
fun1(X, ...)
fun2(X, simplify = FALSE, ...)
fun3(X, noargs = TRUE, ...)
```

Arguments

X	Something called X
	those crazy dots
simplify	shut yo face
noargs	no arguments

gantt

Generate Unit Spans

Description

Generates start and end times of supplied text selections (i.e. text selections are determined by any number of grouping variables).

Usage

```
gantt(text.var, grouping.var, plot = TRUE,
  units = "words", sums = FALSE, plot.colors = NULL,
  box.color = NULL, col.sep = "_")
```

Arguments

text.var	The text variable
grouping.var	The grouping variables. Also takes a single grouping variable or a list of 1 or more grouping variables.
plot	logical. If TRUE plots the start-end times as a gantt plot.
units	The unit of measurement to analyze. One of the strings "character", "syllable", "word", or "sentence".

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sums logical. If TRUE reports and optionally plots the total units used by grouping variable(s).

The colors of the Gannt plot bars. Either a single color or a length equal to the

number of grouping variable(s).

box.color A single color of the box around the Gantt plot bars.

Value

plot.colors

Returns a data frame of start and end times by grouping variable(s) or optionally returns a list of two: (1) A data frame of the total units used by grouping variable(s) and (2) a data frame of of start and end times by grouping variable(s). Optionally plots a gantt plot of the returned data.

Note

For repeated measures data output use gantt_rep; for a convientent wrapper that takes text and generates plots use gantt_plot; and for a flexible gantt plot that words with code matrix functions (cm) use gantt_wrap.

Author(s)

DigEmAll (stackoverflow.com) and Tyler Rinker <tyler.rinker@gmail.com>.

References

Wallace Clark and Henry Gantt (1922) The Gantt chart, a working tool of management. New York, Ronald Press

See Also

```
gantt_rep, gantt_wrap, gantt_plot
```

```
## Not run:
gantt(DATA$state, DATA$person)
gantt(DATA$state, DATA$person, sums = TRUE)
gantt(DATA$state, list(DATA$sex, DATA$adult))
gantt(mraja1$dialogue, mraja1$person) #hard to see without box color
gantt(mraja1$dialogue, mraja1$sex)
gantt(mraja1$dialogue, mraja1$person, box.col = "black")
gantt(mraja1$dialogue, list(mraja1$fam.aff, mraja1$sex), plot.colors = NULL)
gantt(mraja1$dialogue, list(mraja1$fam.aff, mraja1$sex), plot.colors = "black")
gantt(mraja1$dialogue, list(mraja1$fam.aff, mraja1$sex), plot = FALSE)
gantt(mraja1$dialogue, mraja1$person, units = "characters", box.color = "black")
gantt(mraja1$dialogue, list(mraja1$fam.aff, mraja1$sex), units = "characters")
with(mraja1, gantt(dialogue, list(fam.aff, sex, died),
   units = "characters", sums = TRUE))
gantt(mraja1$dialogue, mraja1$person, units = "syllables", box.color = "black", sums = TRUE)
gantt(mraja1$dialogue, list(mraja1$fam.aff, mraja1$sex), units = "syllables")
(dat <- gantt(mraja1$dialogue, list(mraja1$fam.aff, mraja1$sex), units = "sentences",</pre>
     plot.colors = 'black', sums = TRUE, col.sep = "_")$gantt.df)
gantt_wrap(dat, fam.aff_sex, title = "Gantt Plot")
## End(Not run)
```

gantt_plot 7

Description

A convenience that wraps gantt, gantt_rm and gantt_wrap into a single plotting function.

Usage

```
gantt_plot(text.var, grouping.var, rm.var = NULL,
fill.var = NULL, xlab = "duration (in words)",
units = "words", col.sep = "_", ...)
```

Arguments

text.var	The text variable
grouping.var	The grouping variables. Also takes a single grouping variable or a list of 1 or more grouping variables.
rm.var	an optional single vector or list of 1 or 2 of repeated measures to facet by
fill.var	an optional variable to fill the code stips by.
units	The unit of measurement.
col.sep	The column separator.
\ldots	Other arguments passed to gantt_wrap

Value

Returns a Gantt style visualization.

Note

For non repeated measures data/plotting use gantt; for repeated measures data output use gantt_rep; and for a flexible gantt plot that words with code matrix functions (cm) use gantt_wrap.

References

Wallace Clark and Henry Gantt (1922) The Gantt chart, a working tool of management. New York, Ronald Press

See Also

```
gantt gantt_rep, gantt_wrap,
```

```
## Not run:
with(rajSPLIT, gantt_plot(text.var = dialogue, grouping.var = person, size=4))
with(rajSPLIT, gantt_plot(text.var = dialogue, grouping.var =
    list(fam.aff, sex), rm.var = act,
    title = "Romeo and Juliet's dialogue"))
with(rajSPLIT, gantt_plot(dialogue, list(fam.aff, sex), act, transform=T))
rajSPLIT2 <- rajSPLIT</pre>
```

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```
rajSPLIT2$newb <- as.factor(sample(LETTERS[1:2], nrow(rajSPLIT2),
    replace=TRUE))
z <- with(rajSPLIT2, gantt_plot(dialogue, list(fam.aff, sex),
        list(act, newb), size = 4))
z + theme(panel.margin = unit(1, "lines")) + scale_colour_grey()
z + scale_colour_brewer(palette="Dark2")
## End(Not run)</pre>
```

gantt_rep

Generate Unit Spans for Repeated Measures

Description

Produces start and end times for occurances for each repeated measure condition.

Usage

```
gantt_rep(rm.var, text.var, grouping.var,
  units = "words", col.sep = "_")
```

Arguments

rm. var an optional single vector or list of 1 or 2 of repeated measures to facet by

text.var The text variable

grouping.var The grouping variables. Also takes a single grouping variable or a list of 1 or

more grouping variables.

units The unit of measurement to analyze. One of the strings "character", "syllable",

"word", or "sentence".

Value

Returns a data frame of start and end times by repeated measure and grouping variable(s)

Note

For non repeated measures data/plotting use gantt; for a convientent wrapper that takes text and generates plots use gantt_plot; and for a flexible gantt plot that words with code matrix functions (cm) use gantt_wrap.

References

Wallace Clark and Henry Gantt (1922) The Gantt chart, a working tool of management. New York, Ronald Press

See Also

```
gantt, gantt_wrap, gantt_plot
```

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Examples

```
## Not run:
(dat3 <- with(rajSPLIT, gantt_rep(act, dialogue, list(fam.aff, sex), units = "words",
    col.sep = "_")))
gantt_wrap(dat3, fam.aff_sex, facet.vars = "act", title = "Repeated MeasuresGantt Plot",
    minor.line.freq = 25, major.line.freq = 100)
## End(Not run)</pre>
```

gantt_wrap

Gantt Plot

Description

A ggplot2 wrapper that produces a Gantt plot

Usage

```
gantt_wrap(dataframe, plot.var, facet.vars = NULL,
  fill.var = NULL, title = NULL,
  ylab = as.character(plot.var),
  xlab = "duration.default", rev.factor = TRUE,
  transform = FALSE, ncol = NULL, minor.line.freq = NULL,
  major.line.freq = NULL, sig.dig.line.freq = 1,
  hms.scale = NULL, scale = NULL, space = NULL, size = 3,
  rm.horiz.lines = FALSE, x.ticks = TRUE, y.ticks = TRUE,
  legend.position = NULL, bar.color = NULL,
  border.color = NULL, border.size = 2,
  border.width = 0.1, constrain = TRUE)
```

Arguments

dataframe a data frame with ploting variable(s) and a column of start and end times. a factor plotting variable (y axis) plot.var facet.vars an optional single vector or list of 1 or 2 to facet by fill.var an optional variable to fill the code stips by. title an optional title for the plot. ylab an optional y label. xlab an optional x label. rev.factor logical. if TRUE reverse the current plotting order so the first element in the plotting variable's levels is plotted on top. if an integer value is passed to this gantt_wrap uses facet_wrap rather than ncol facet_grid logical. if TRUE the repeated facets will be transformed from stacked to side by transform side. minor.line.freq

a numeric value for frequency of minor grid lines.

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major.line.freq

a numeric value for frequency of major grid lines.

sig.dig.line.freq

An internal rounding factor for minor and major line freq. Generally, default

value of 1 suffices for larger range of x scale may need to be set to -2...

hms.scale logical. If TURE converts scale to h:m:s format. Default NULL attempts to

detect if object is a cm_time2long object

scale should scales be fixed ("fixed", the default), free ("free"), or free in one dimen-

sion ("free_x", "free_y")

space if "fixed", the default, all panels have the same size. If "free y" their height

will be proportional to the length of the y scale; if "free_x" their width will be proportional to the length of the x scale; or if "free" both height and width will

vary. This setting has no effect unless the appropriate scales also vary.

size the width of the plot bars.

rm.horiz.lines logical. if TRUE the horzontal lines will be removed

x.ticks logical. if TRUE the x tixks will be displayed y.ticks logical. if TRUE the y tixks will be displayed

legend.position

the position of legends. ("left", "right", "bottom", "top", or two-element numeric

vector)

bar.color optional color to constrain all bars

border.color the color to plot border around Gantt bars (default is NULL)

border.size an integer value for the size to plot borders around Gantt bars. Controls length

(width also controlled if not specified).

border.width controls broder width around Gantt bars. Use a numeric value in addition to

border size if plot borders appear disproportional.

constrain logical. If TRUE the Gantt bars touch the edge of the graph.

Value

Returns a Gantt style visualization.

Note

For non repeated measures data/plotting use gantt; for repeated measures data output use gantt_rep; and for a convientent wrapper that takes text and generates plots use gantt_plot.

Author(s)

Andrie de Vries and and Tyler Rinker <tyler.rinker@gmail.com>.

References

Wallace Clark and Henry Gantt (1922) The Gantt chart, a working tool of management. New York, Ronald Press

See Also

```
gantt, gantt_plot, gantt_rep
```

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Examples

```
## Not run:
(dat <- gantt(mraja1$dialogue, list(mraja1$fam.aff, mraja1$sex),
    units = "sentences", plot.colors = 'black', sums = TRUE,
    col.sep = "_")$gantt.df)
gantt_wrap(dat, fam.aff_sex, title = "Gantt Plot")
dat$codes <- sample(LETTERS[1:3], nrow(dat), TRUE)
gantt_wrap(dat, fam.aff_sex, fill.var = "codes", legend.position = "bottom")

(dat3 <- with(rajSPLIT, gantt_rep(act, dialogue, list(fam.aff, sex),
    units = "words", col.sep = "_")))
x <- gantt_wrap(dat3, fam.aff_sex, facet.vars = "act",
    title = "Repeated MeasuresGantt Plot")
x + scale_color_manual(values=rep("black", length(levels(dat3$fam.aff_sex))))
## End(Not run)</pre>
```

kullback.leibler

Kullback Leibler Statistic

Description

A proximatey measure between two probability distributions applied to speech.

Usage

```
kullback.leibler(x, y = NULL, digits = 3)
```

Arguments

x A numeric vector, matrix or data frame.

y A second numeric vector if x is also a vector. Default is NULL.

digits Number of dicimal places to round.

Details

Uses Kullback & Leibler's (1951) formula:

$$D_{KL}(P||Q) = \sum_{i} ln\left(\frac{P_{i}}{Q_{i}}\right) P_{i}$$

Value

Returns a matrix of the Kullback Leibler measure between each vector of probabiltiies.

References

Kullback, S., & Leibler, R.A. (1951). On Information and sufficiency. Annals of Mathematical Statistics 22 (1): 79-86. doi:10.1214/aoms/1177729694

pos pos

Examples

```
## Not run:
p.df <- word.freq.df(DATA$state, DATA$person)
p.mat <- wfm(text.var = DATA$state, grouping.var = DATA$person)
kullback.leibler(p.mat)
kullback.leibler(p.df)
kullback.leibler(p.df$greg, p.df$sam)
p.df2 <- word.freq.df(raj$dialogue, raj$person)
kullback.leibler(p.df2)
## End(Not run)</pre>
```

metaDAT

metaDAT: Tools for Data Management in Meta-Analysis

Description

This package automates many of the tasks associated with quantitative discourse analysis oftranscripts containing discourse including frequency counts of sentence types, words, sentence, turns of talk, syllable counts and other assorted analysis tasks. The package provides parsing tools for preparing transcript data. Many functions enable the user to aggregate data by any number of grouping variables providing analysis and seamless integration with other R packages that undertake higher level analysis and visualization of text. This provides the user with a more efficient and targeted analysis.

pos

Transcript Apply Parts of Speech Tagging

Description

```
pos - Apply part of speech tagger to transcript(s).

pos.by - Apply part of speech tagger to transcript(s) by zero or more grouping variable(s).

pos.tags - Useful for interpreting the parts of speech tags created by pos and pos.by.
```

Usage

```
pos(text.var, parallel = FALSE, na.omit = FALSE,
  digits = 2, progress.bar = TRUE, gc.rate = 10)

pos.by(text.var, grouping.var = NULL, digits = 2, ...)
pos.tags(type = "pretty")
```

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Arguments

text.var The text variable

parallel logical. If TRUE attempts to run the function on multiple cores. Note that this

may not mean a spead boost if you have one core or if the data set is smaller as

the cluster takes time to create.

na.omit logical. If TRUE missing values (]codeNA) will be omitted.

digits integer indicating the number of decimal places (round) or significant digits (sig-

nif) to be used. Negative values are allowed

progress.bar logical. If TRUE attempts to provide a OS appropriate progress bar. If parallel

is TRUE this argument is ignored. Nite that setting this argument to TRUE may

slow down the function.

gc.rate An integer value. This is a necessary argument because of a problem with the

garbage collection in the openNLP function that pos wraps. Consider adjusting

this argument upward if the error java.lang.OutOfMemoryError occurs.

grouping.var The grouping variables. Default NULL generates one word list for all text. Also

takes a single grouping variable or a list of 1 or more grouping variables.

. . . Other argument supplied to pos.

type An optional character string giving the output of the post ags. This must be

one of the strings "pretty" (a left justified version of the output optimized for viewing but not good for export), "matrix" (a matrix version of the output), "dataframe"\ "df" (a dataframe varseion of the output), "all" (a list of all

three of the previous output types).

Value

pos returns a list of 4:

text The original text

POStagged The original words replaced with parts of speech in context.

POSprop Dataframe of the proportion of parts of speech by row.

POSfreq Dataframe of the frequency of parts of speech by row.

pos.by returns a list of 6:

text The original text

POStagged The original words replaced with parts of speech in context.

POSprop Dataframe of the proportion of parts of speech by row.

POSfreq Dataframe of the frequency of parts of speech by row.

pos.by.prop Dataframe of the proportion of parts of speech by grouping variable.

Dataframe of the frequency of parts of speech by grouping variable.

References

 $open NLP \; \verb|http:/opennlp.apache.org| \\$

See Also

tagPOS

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Examples

```
## Not run:
posdat <- pos(DATA$state)</pre>
str(posdat)
names(posdat)
posdat$text
                  #original text
\verb|posdat$POStagged| \verb|#words| replaced with parts of speech|
posdat$POSprop #proportion of parts of speech by row
posdat$POSfreq
                  #frequency of parts of speech by row
pos(DATA$state, parallel = TRUE) # not always useful
## End(Not run)
#use pos.tags to interpret part of speech tags used by pos & pos.by
pos.tags()
pos.tags("matrix")
pos.tags("dataframe")
pos.tags("df")
pos.tags("all")
## Not run:
posbydat <- with(DATA, pos.by(state, sex))</pre>
names(posbydat)
posbydat
posbydat$pos.by.prop
with(DATA, pos.by(state, list(adult, sex)))
## End(Not run)
```

print.POS

Prints a POS object

Description

Prints a POS object.

Usage

```
## S3 method for class 'POS'
print(x, ...)
```

Arguments

x The POS object ignored

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print.POSby

Prints a POSby object

Description

Prints a POSby object.

Usage

```
## S3 method for class 'POSby'
print(x, ...)
```

Arguments

x The POSby object ignored

print.termco_d

Prints an termco_d object.

Description

Prints an termco_d object.

Usage

```
## S3 method for class 'termco_d'
print(x, ...)
```

Arguments

x The termco_d object
... ignored

qdap

qdap: Quantitative Discourse Analysis Package

Description

This package automates many of the tasks associated with quantitative discourse analysis oftranscripts containing discourse including frequency counts of sentence types, words, sentence, turns of talk, syllable counts and other assorted analysis tasks. The package provides parsing tools for preparing transcript data. Many functions enable the user to aggregate data by any number of grouping variables providing analysis and seamless integration with other R packages that undertake higher level analysis and visualization of text. This provides the user with a more efficient and targeted analysis.

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termco.a Search For and Count Terms

Description

termco.a - Search a transcript by any number of grouping variables for categories (themes) of grouped root terms. While there are other termco functions in the termco family (i.e. termco.d) termco.a is a wrapper for general use.

termco.d - Search a transcript by any number of grouping variables for root terms.

term.match - Search a transcript for words that exactly match term(s).

termco2mat - Convert a termco dataframe to a matrix for use with visualization functions (e.g. heatmap2 of the gplots package).

Usage

```
termco.a(text.var, grouping.var = NULL, match.list,
    short.term = TRUE, ignore.case = TRUE, elim.old = TRUE,
    output = "percent", digits = 2,
    apostrophe.remove = FALSE, char.keep = NULL,
    digit.remove = NULL, ...)

termco.d(text.var, grouping.var = NULL, match.string,
    short.term = FALSE, ignore.case = TRUE,
    zero.replace = 0, output = "percent", digits = 2,
    apostrophe.remove = FALSE, char.keep = NULL,
    digit.remove = TRUE, ...)

term.match(text.var, terms, return.list = TRUE,
    apostrophe.remove = FALSE)

termco2mat(dataframe, drop.wc = TRUE, short.terms = TRUE,
    rm.zerocol = FALSE, no.quote = TRUE, transform = TRUE,
    trim.terms = TRUE)
```

Arguments

text.var	The text variable.
grouping.var	The grouping variables. Default NULL generates one word list for all text. Also takes a single grouping variable or a list of 1 or more grouping variables.
match.list	a list of named character vectors
short.term	logical. If TRUE column names are trimmed versions of the match list, other wise the terms are wrapped with 'term(phrase)'
ignore.case	logical. If TRUE case is ignored.
elim.old	logical. If TRUE eliminates the columns that are combined together by the named match.list.
output	Type of proportion output; either "proportion" (decimal format) or "percent". Default is percent.

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digits integer indicating the number of decimal places (round) or significant digits (sig-

nif) to be used. Negative values are allowed.

apostrophe.remove

logical. If TRUE removes apostrophes from the text before examining.

char . keep A character vector of symbol character (i.e. punctioation) that strip should keep.

The default is to strip everything except apostophes.

digit.remove logical. If TRUE strips digits from the text.

... Other argument supplied to strip.

match.string A vector of terms to search for. When using inside of term.match the term(s)

must be words or partial words but do not have to be when using termco.d (i.e.

they can be phrases, symbols etc.).

zero.replace Value to replace 0 values with.

return.list logical. If TRUE returns the output for multiple terms as a list by term rather

than a vector.

dataframe A termco.a (or termco.d) dataframe or object.

drop.wc logical. If TRUE the word count column will be dropped.

short.colnames logical. If TRUE the "term()" portion of column names will be dropped.

no.quote logical. If TRUE the matrix will be printed without quotes if it's character.

transform logical. If TRUE the matrix will be transformed.

Value

both termco.a and termco.d return a list, of class "termco.d", of data frames and information regarding word counts:

raw word counts by grouping variable

prop proportional word counts by grouping variable; proportional to each individual's

word use

rnp a character combination data frame of raw and proportional

zero_replace value to replace zeros with; mostly internal use

output character value for outpur type (either" "proportion" or "percent"; mostly inter-

nal use

digits integer value od number of digits to display; mostly internal use

term.match returns a list or vector of possible words that match a term.

termco2mat returns a matrix of term counts.

Note

The match.list/match.string is (optionally) case and character sensitive. Spacing is an important way to grab specific words and requires careful thought. Using "read"will find the words "bread", "read" "reading", and "ready". If you want to search fo just the word "read" you'd supply a vector of c(" read ", " reads", " reading", " reader"). To search for non character arguments (i.e. numbers and symbols) additional arguments from strip must be passed.

See Also

See Also as termco.d See Also as term.match See Also as termco2matrix

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```
## Not run:
#termco.a examples:
# General form for match.list
# ml <- list(
#
     cat1 = c(),
     cat2 = c(),
#
      catn = c()
#)
ml <- list(
   cat1 = c(" the ", " a ", " an "),
    cat2 = c("I'"),
    "good",
    the = c("the", " the ", " the", "the")
)
(dat <- with(raj.act.1, termco.a(dialogue, person, ml)))</pre>
names(dat)
dat$rnp #useful for presenting in tables
dat$raw #prop and raw are useful for performing calculations
dat <- with(raj.act.1, termco.a(dialogue, person, ml,</pre>
    short.term = FALSE, elim.old=FALSE))
dat2 <- data.frame(dialogue=c("@bryan is bryan good @br",</pre>
    "indeed", "@ brian"), person=qcv(A, B, A))
ml <- list(wrds=c("bryan", "indeed"), bryan=c("bryan", "@ br", "@br"))</pre>
with(dat2, termco.a(dialogue, person, match.list=ml, char.keep="@"))
with(dat2, termco.a(dialogue, person, match.list=ml,
    char.keep="@", output="proportion"))
DATA$state[1] <- "12 4 rgfr r0ffrg0"</pre>
termco.a(DATA$state, DATA$person, '0', digit.remove=FALSE)
#Using with term.match and exclude
exclude(term.match(DATA$state, qcv(th), FALSE), "truth")
termco.a(DATA$state, DATA$person, exclude(term.match(DATA$state, qcv(th),
FALSE), "truth"))
MTCH.LST <- exclude(term.match(DATA$state, qcv(th, i)), qcv(truth, stinks))
termco.a(DATA$state, DATA$person, MTCH.LST)
#termco.d examples:
term.match(DATA$state, qcv(i, the))
termco.d(DATA$state, DATA$person, c(" the", " i'"))
{\tt termco.d(DATA\$state,\ DATA\$person,\ c("\ the",\ "\ i'"),\ ignore.case=FALSE)}
\texttt{termco.d}(\texttt{DATA\$state}, \ \texttt{DATA\$person}, \ \texttt{c("the ", "i'")})
# termco2mat example:
MTCH.LST <- exclude(term.match(DATA$state, qcv(a, i)), qcv(is, it, am, shall))
termco_obj <- termco.a(DATA$state, DATA$person, MTCH.LST)</pre>
```

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```
termco2mat(termco_obj)

# as a visual
dat <- termco2mat(termco_obj)
library(gplots)
heatmap.2(dat, trace="none")
## End(Not run)</pre>
```

wfm

Word Frequencty Matrix

Description

```
wfm - Generate a word frequency matrix by grouping variable(s).
wfdf - Generate a word frequency data frame by grouping variable.
wfm.expanded - Expand a word frequency matrix to have multiple rows for each word.
wf.combine - Combines words (rows) of a word frequency data frame (wfdf) together.
```

Usage

```
wfm(text.var = NULL, grouping.var = NULL, wfdf = NULL,
  output = "raw", stopwords = NULL, digits = 2)

wfdf(text.var, grouping.var = NULL, stopwords = NULL,
  margins = FALSE, output = "raw", digits = 2)

wfm.expanded(text.var, grouping.var = NULL, ...)

wf.combine(wf.obj, word.lists, matrix = FALSE)
```

Arguments

text.var	The text variable
grouping.var	The grouping variables. Default NULL generates one word list for all text. Also takes a single grouping variable or a list of 1 or more grouping variables.
wfdf	A word frequency data frame given instead of raw text.var and optional grouping.var. Basically converts a word frequency dataframe (wfdf) to a word frequency matrix (wfm). Default is NULL.
output	Output type (either "proportion", "proportion" or "percent").
stopwords	A vector of stop words to remove.
digits	An integer indicating the number of decimal places (round) or significant digits (signif) to be used. Negative values are allowed
margins	logical. If TRUE provides grouping.var and word variable totals.
	Other arguments supplied to wfm.
wf.obj	A wfm or wfdf object.
word.lists	A list of character vectors of words to pass to wf.combine
matrix	logical. If TRUE returns the output as a wfm rather than a wfdf object

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Value

wfm returns a word frequency of the class matrix.

wfdf returns a word frequency of the class data.frame with a words column and optional margin sums

wfm.expanded returns a matrix similar to a word frequency matrix (wfm)but the rows are expanded to represent the maximum usages of the word and cells are dummy coded to indicate that numer of uses

wf.combine returns a word frequency matrix (wfm) or dataframe (wfdf) with counts for the combined word.lists merged and remaining terms(else).

```
## Not run:
#word frequency matrix (wfm) example:
with(DATA, wfm(state, list(sex, adult)))
dat <- with(DATA, wfm(state, person))</pre>
#word frequency dataframe (wfdf) example:
with(DATA, wfdf(state, list(sex, adult)))
with(DATA, wfdf(state, person))
#wfm.expanded example:
z <- wfm(DATA$state, DATA$person)</pre>
wfm.expanded(z)
wfm.expanded(DATA$state, DATA$person)
wfm.expanded(DATA$state, list(DATA$sex, DATA$adult))
#wf.combine example:
#raw no margins (will work)
x <- wfm(DATA$state, DATA$person)</pre>
#raw with margin (will work)
y <- wfdf(DATA$state, DATA$person, margins = TRUE)
#porportion (will not work)
z <- wfdf(DATA$state, DATA$person, output = "proportion")</pre>
WL1 \leftarrow c(y[, 1])
WL2 <- list(c("read", "the", "a"), c("you", "your", "your're"))
WL3 <- list(bob = c("read", "the", "a"), yous = c("you", "your", "your're"))
WL4 <- list(bob = c("read", "the", "a"), yous = c("a", "your", "your", "your"re"))
WL5 <- list(c("you", "your", "your", "your"re"))
WL6 <- list(c("you", "your", "your"re")) #no name so will be called words 1
WL7 <- c("you", "your", "your're")
wf.combine(z, WL2) #Won't work not a raw frequency matrix
wf.combine(x, WL2) #Works (raw and no margins)
wf.combine(y, WL2) #Works (raw with margins)
wf.combine(y, c("you", "your", "your're"))
wf.combine(y, WL1)
wf.combine(y, WL3)
wf.combine(y, WL4) #Error b/c there's overlapping words in the word lists
wf.combine(y, WL5)
wf.combine(y, WL6)
wf.combine(y, WL7)
```

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```
worlis <- c("you", "it", "it's", "no", "not", "we")
y <- wfdf(DATA$state, list(DATA$sex, DATA$adult), margins = TRUE)
z <- wfdf.combine(y, worlis, matrix = TRUE)

chisq.test(z)
chisq.test(wfm(wfdf = y))
## End(Not run)</pre>
```

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