Package 'JATSdecoder'

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Title JATSd	ccouci

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Description This package contains a function collection to extract meta data, sectioned text and study characteristics from scientific articles. Its function JATSdecoder() converts NISO-JATS-tagged XML files to a structured list with elements containing title, author, journal, history, link, abstract, sectioned text and references. Studies in PDF format can be easily converted to NISO-JATS with the open source software CER-MINE (https://github.com/CeON/CERMINE/). JATSdecoders function study.character() extracts multiple study characteristics like number of included studies, statistical methods used, alpha error, power, statistical results, correction method for multiple testing, software used. Based on different heuristics it will perform a reliable estimation of studies sample size soon (in progress). The package contains a set of usefull functions to unify and transform information in text.

Depends R (>= 3.1.1)
Imports utils,
stats
License CC0
Encoding UTF-8
LazyData true
RoxygenNote 7.1.1

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Description

Extract statistical results from text with some uniformisation

Usage

allStats(x)

get.abstract 3

Arguments

x text to extract statistical results from

Examples

```
x<-c("The mean difference of scale A was significant (beta=12.9, t(18)=2.5, p<.05)", "The ANOVA yielded significant results on faktor A (F(2,18)=6, p<.05, eta(g)2<-.22)", "the correlation of x and y was r=.37.") allStats(x)
```

get.abstract

get.abstract

Description

Extract abstract tag from NISO-JATS coded XML file or text as vector of abstracts

Usage

```
get.abstract(
   x,
   sentences = FALSE,
   remove.title = TRUE,
   letter.convert = TRUE,
   cermine = FALSE
)
```

Arguments

x a NISO-JATS coded XML file or text

sentences Logical. If TRUE abstract is returned as vector of sentences

remove.title Logical. If TRUE removes section titles in abstract

letter.convert Logical. If TRUE converts hex and html coded characters to unicode

cermine Logical. If TRUE and letter.convert=TRUE performs CERMINE specific text

correction

```
x<-"Some text <abstract>Some abstract</abstract> some text"
get.abstract(x)
x<-"Some text <abstract>Some abstract</abstract> TEXT <abstract with subsettings>
Some other abstract</abstract> Some text "
get.abstract(x)
```

4 get.alpha.error

get.aff get.aff

Description

Extract affiliation tag/s from NISO-JATS coded XML file or text as vector of affiliations

Usage

```
get.aff(x, remove.html = FALSE, letter.convert = TRUE)
```

Arguments

```
    x a NISO-JATS coded XML file or text
    remove.html Logical. If TRUE removes all html tags
    letter.convert Logical. If TRUE converts hex and html coded characters to unicode
```

Examples

get.alpha.error

get.alpha.error

Description

Extract reported alpha error from text

Usage

```
get.alpha.error(x)
```

Arguments

Х

text to process

get.assumptions 5

|--|--|

Description

Extract mentioned assumptions in text out of list with 22 statistical assumptions

Usage

```
get.assumptions(x, hits_only = TRUE)
```

Arguments

text to process Х

hits_only Logical. If TRUE returns the detected assumtions only, else a hit matrix with all

potential assumptions

Examples

```
x<-"Sphericity assumption and gaus-marcov was violated."
get.assumptions(x)
```

get.author get.author

Description

Extract author tag/s from NISO-JATS coded XML file or text as vector of authors

Usage

```
get.author(x, paste = "", short.names = FALSE, letter.convert = FALSE)
```

Arguments

a NISO-JATS coded XML file or text

if "" author list is exported as vector with length of number of authors, else paste

collapsed to one cell

short.names Logical. If TRUE fully available first names will be reduced to one letter abbre-

viation

letter.convert Logical. If TRUE converts hex and html coded characters to unicode

6 get.contrib

get.category

get.category

Description

Extract category tag/s from NISO-JATS coded XML file or text as vector of categories

Usage

```
get.category(x)
```

Arguments

Χ

a NISO-JATS coded XML file or text

Examples

```
x<-"Some text <article-categories>Some category</article-categories> some text" get.category(x)
```

get.contrib

get.contrib

Description

Extract contrib tag/s from NISO-JATS coded XML file or text as vector of contributers

Usage

```
get.contrib(x, remove.html = FALSE, letter.convert = FALSE)
```

Arguments

a NISO-JATS coded XML file or text

remove.html Logical. If TRUE removes all html tags

letter.convert Logical. If TRUE converts hex and html coded characters to unicode

get.country 7

get.country

get.country

Description

Extract country tag from NISO-JATS coded XML file or text as vector of unique countries

Usage

```
get.country(x, unifyCountry = TRUE)
```

Arguments

X

a NISO-JATS coded XML file or text

unifyCountry

Logical. If TRUE replaces country name with standardised country name

Examples

```
x<-"Some text <country>UK</country> some text <country>England</country>
    Text<country>Berlin, Germany</country>"
get.country(x)
```

get.doi

get.doi

Description

Extract articles doi from NISO-JATS coded XML file or text

Usage

```
get.doi(x)
```

Arguments

Χ

a NISO-JATS coded XML file or text

get.history

get.editor get.editor

Description

Extract editor tag from NISO-JATS coded XML file or text as vector of editor/s

Usage

```
get.editor(x, role = FALSE, short.names = FALSE, letter.convert = FALSE)
```

Arguments

x a NISO-JATS coded XML file or text

role Logical. If TRUE adds role to editor name, if available

short.names Logical. If TRUE reduces fully available first names to one letter abbreviation

letter.convert Logical. If TRUE converts hex and html coded characters to unicode

get.history get.history

Description

Extract available publishing history tags from NISO-JATS coded XML file or text and compute pubDate and pubyear

Usage

```
get.history(x, remove.na = FALSE)
```

Arguments

x a NISO-JATS coded XML file or text

remove.na Logical. If TRUE hides non available date stamps

get.journal 9

get.journal

get.journal

Description

Extract journal-title tag from NISO-JATS coded XML file or text

Usage

```
get.journal(x)
```

Arguments

Х

a NISO-JATS coded XML file or text

Examples

```
x<-"Some text <journal-title>PLoS One</journal-title> some text" get.journal(x)
```

get.keywords

get.keywords

Description

Extract keyword tag/s from NISO-JATS coded XML file or text as vector of keywords

Usage

```
get.keywords(
    x,
    paste = "",
    letter.convert = TRUE,
    include.max = length(keyword)
)
```

Arguments

```
x a NISO-JATS coded XML file or text
```

paste if paste!="" author vector is collapsed to one cell

letter.convert Logical. If TRUE converts hex and html coded characters to unicode

include.max a maximum number of keywords to extract

```
x<-"Some text <kwd>Keyword 1</kwd>, <kwd>Keyword 2</kwd> some text"
get.keywords(x)
get.keywords(x,paste(", "))
```

10 get.multi.comparison

get.method

get.method

Description

Extract statistical methods mentioned in text

Usage

```
get.method(x, add = NULL, cermine = FALSE)
```

Arguments

x text to extract statistical methods from

add possible new end words of method as vector

cermine Logical. If TRUE CERMINE specific letter conversion will be performed

Examples

```
x<-"We used multiple regression analysis and two sample t tests to evaluate our results." get.method(x)
```

```
get.multi.comparison get.multi.comparison
```

Description

Extract alpha-/p-value correction method for multiple comparisons from list with 14 correction methods

Usage

```
get.multi.comparison(x)
```

Arguments

Х

text to process

```
x<-"We used Bonferroni corrected p-values."
get.multi.comparison(x)</pre>
```

get.n.studies 11

get.n.studies

get.n.studies

Description

Extract n studies/experiments from section titles or abstract text

Usage

```
get.n.studies(x, tolower = TRUE)
```

Arguments

x section titles or abstract text to process

tolower Logical. If TRUE lowerises text and search patterns for processing

get.outlier.def

get.outlier.def

Description

Extract outlier/extreme value definition/removal in standard deviations, if present in text

Usage

```
get.outlier.def(x)
```

Arguments

Χ

text to process

```
x<-"We removed 4 extreme values that were 3 SD above mean." get.outlier.def(x)
```

12 get.R.package

get.power

get.power

Description

Extract a priori power, empirial power values and 1-betaerror

Usage

```
get.power(x)
```

Arguments

Χ

text to process

Examples

```
x<-"We used G*Power 3 to calculate the needed sample with beta error rate set to 12% and alpha error to .05." get.power(x)
```

get.R.package

get.R.package

Description

Extract mentioned R package from text

Usage

```
get.R.package(x, update.package.list = FALSE)
```

Arguments

```
x text to process
update.package.list
```

Logical. If TRUE update of list with available packages is downloaded from CRAN with available.packages()

```
get.R.package("We used the R Software packages lme4 (and psych).")
```

get.references 13

get.references	get.references

Description

Extract reference list from NISO-JATS coded XML file or text as vector of references

Usage

```
get.references(
    x,
    letter.convert = FALSE,
    remove.html = FALSE,
    extract = "full"
)
```

Arguments

```
    x a NISO-JATS coded XML file or text
    letter.convert Logical. If TRUE converts hex and html coded characters to unicode
    remove.html Logical. If TRUE removes all html tags
    extract part of references to extract (one of "full" or "title")
```

```
get.sentence.with.pattern

get.sentence.with.pattern
```

Description

Return lines with search term patterns

Usage

```
get.sentence.with.pattern(x, patterns = c(""), tolower = TRUE)
```

Arguments

```
    x text to process
    patterns search terms
    tolower Logical. If TRUE converts search terms and text to lower case
```

```
text<-c("This demo demonstrates how get.sentence.with.pattern works.","The is a simple 0, 1.")
get.sentence.with.pattern(text,c("Demo","example","work"))
get.sentence.with.pattern(text,c("Demo","example","work"),tolower=TRUE)</pre>
```

14 get.software

```
get.sig.adjectives
```

Description

Extract adjectives used for in/significance out of list with 37 potential adjectives

Usage

```
get.sig.adjectives(x)
```

Arguments

text to process

Examples

```
get.sig.adjectives( $x<^{"}$We found very highly significance for type 1 effect")
```

get.software

get.software

Description

Extract mentioned software from text by dictionary search for 63 software names (object: .software_names)

Usage

```
get.software(x, add.software = NULL)
```

Arguments

```
x text
```

add.software a text vector with additional software name patterns to search for

```
get.software( $\rm x<\mbox{-}"We} used the R Software and Excel 4.0 to analyse our data.")
```

get.stats 15

get.stats get.stats

Description

Extract statistical results from plain text, xml, cermxml, html, htm or docx files. The result is a list with a vector containing all identified sticked results and a matrix with containing reported standard statistics and recalculated p-values if computation is possible.

Usage

```
get.stats(
    x,
    output = "both",
    stats.mode = "all",
    recalculate.p = TRUE,
    alternative = "undirected",
    estimateZ = FALSE,
    T2t = FALSE,
    R2r = FALSE,
    rm.na.col = TRUE,
    cermine = FALSE
)
```

Arguments

X	text or JATScoded XML file to extract statistical results from
output	Select the desired output. One of c("both","allStats","standardStats")
stats.mode	Select subset of standard Stats. One of: "all", "checkable", "computable", "uncomputable" $$
recalculate.p	Logical. If TRUE recalculates p-values of standardStats if possible
alternative	Character. Select sidedness of recomputed p-values from t-, r- and beta-values. One of $c("undirected","directed","both")$
estimateZ	Logical. If TRUE detected beta-/d-value is divided by reported standard error "SE" to estimate Z-value ("Zest") for observed beta/d and recompute p-value. Note: This is only valid, if Gauss-Marcov assumptions are met and a sufficiently large sample size is used. If a Z- or t-value is detected in a report of a beta-/d-coefficient with SE, no estimation will be performed, although set to TRUE.
Γ2t	Logical. If TRUE capital letter T is treated as t-statistic
R2r	Logical. If TRUE capital letter R is treated as correlation
rm.na.col	Logical. If TRUE removes all columns with only NA from standardStats
cermine	Logical. If TRUE CERMINE specific letter conversion will be performed on all Stats results
	putput stats.mode recalculate.p alternative estimateZ

16 get.test.direction

Examples

```
x<-c("The mean difference of scale A was significant (beta=12.9, t(18)=2.5, p<.05).", "The ANOVA yielded significant results on faktor A (F(2,18)=6, p<.05, eta(g)2<-.22)", "the correlation of x and y was r=.37.") get.stats(x)
```

get.subject

get.subject

Description

Extract subject tag/s from NISO-JATS coded XML file or text as vector of subjects

Usage

```
get.subject(x, letter.convert = TRUE, paste = "")
```

Arguments

x a NISO-JATS coded XML file or text
 letter.convert Logical. If TRUE converts hex and html coded characters to unicode
 paste if "" author list is exported as vector with length of number of authors, else

collapsed to one cell

Examples

```
x<-"Some text <subject>Some subject</subject> some text"
get.subject(x)
x<-"Some text <subject>Some subject</subject> TEXT <subject>Some other subject</subject> Some text "
get.subject(x)
get.subject(x,paste=", ")
```

get.test.direction get.test.direction

Description

Extract mentioned test direction/s (one sided, two sided, one and two sided) from text

Usage

```
get.test.direction(x)
```

Arguments

x text to process

get.text 17

get.text get.text

Description

Extract main textual content from NISO-JATS coded XML file or text as sectioned text

Usage

```
get.text(
    x,
    sectionsplit = "",
    letter.convert = TRUE,
    greek2text = FALSE,
    sentences = FALSE,
    cermine = "auto",
    rm.table = TRUE,
    rm.media = TRUE,
    rm.graphic = TRUE,
    rm.ext_link = TRUE
)
```

Arguments

X	a NISO-JATS coded XML file or text
sectionsplit	$search\ patterns\ for\ section\ split\ (forced\ to\ lower\ case), e.g.\ c ("intro", "method", "result", "discus")$
letter.convert	Logical. If TRUE converts hex and html coded characters to unicode
greek2text	Logical. If TRUE some greek letters and special characters will be unified to textual representation. (important to extract stats)
sentences	Logical. IF TRUE text is returned as sectioned list with sentences
cermine	Logical. If TRUE CERMINE specific error handling and letter conversion will be applied. If set to "auto" file name ending with 'cermxml\$' will set cermine=TRUE
rm.table	Logical. If TRUE removes tag from text
rm.xref	Logical. If TRUE removes <xref> tag (citing) from text</xref>
rm.media	Logical. If TRUE removes <media> tag from text</media>
rm.graphic	Logical. If TRUE removes <graphic> and <fig> tag from text</fig></graphic>
rm.ext_link	Logical. If TRUE removes <ext link=""> tag from text</ext>

18 get.vol

get.title

get.title

Description

Extract articles title from NISO-JATS coded XML file or text

Usage

```
get.title(x)
```

Arguments

Х

a NISO-JATS coded XML file or text

 ${\tt get.type}$

get.type

Description

Extract article-type tag from NISO-JATS coded XML file or text

Usage

```
get.type(x)
```

Arguments

Х

a NISO-JATS coded XML file or text

get.vol

get.vol

Description

Extract volume, first and last page from NISO-JATS coded XML file or text

Usage

```
get.vol(x)
```

Arguments

Χ

a NISO-JATS XML coded file or text

has.interaction 19

has.interaction has.interaction

Description

Identify interaction/moderator/mediator effect in text

Usage

```
has.interaction(x)
```

Arguments

x text to process

has.pattern has.pattern

Description

Return search term hit vector for all search patterns

Usage

```
has.pattern(x, patterns = c(""), tolower = TRUE)
```

Arguments

x text to process patterns search terms

tolower Logical. If TRUE converts search terms and text to lower case

20 JATSdecoder

JATSdecoder JATSdecoder

tation, e.g.: alpha

files

Description

Function to extract and structure NISO-JATS coded XML file or text into a list

Usage

```
JATSdecoder(
    x,
    sectionsplit = c("intro", "method", "result", "study", "experiment", "conclu",
        "implica", "discussion"),
    sentences = FALSE,
    output = "all",
    letter.convert = TRUE,
    unify.country.name = TRUE,
    greek2text = FALSE,
    warning = TRUE
)
```

Arguments

warning

x	a NISO-JATS coded XML file or text
sectionsplit	search patterns for section split (forced to lower case), e.g. c("intro", "method", "result", "discus")
sentences	Logical. IF TRUE text is returned as sectioned list with sentences
output	selection of specific results to output c("all", "title", "author", "affiliation", "journal", "volume", "editor", "doi' "abstract", "sections", "text", "captions", "references")
letter.convert	Logical. If TRUE converts hex and html coded characters to unicode
unify.country.n	name Logical. If TRUE tries to unify country name/s with list of country names from worldmap()
greek2text	Logical. If TRUE converts and unifies several greek letters to textual represen-

Logical. If TRUE outputs a warning if processing CERMINE converted PDF

letter.convert 21

|--|--|

Description

Convert and unify most hex and some html coded letters in text to unicode characters and correct CERMINE specific errors in captured statistical results.

Usage

```
letter.convert(x, cermine = FALSE, greek2text = FALSE, warning = TRUE)
```

Arguments

x text to process

cermine Logical. If TRUE CERMINE specific error handling and letter conversion will

be applied

greek2text Logical. If TRUE some greek letters and special characters will be unified to

textual representation. (important to extract stats)

warning Logical. If TRUE prints warning massage if CERMINE specific letter conver-

sion was performed

Examples

```
x<-c("five &#x0003c; ten","five &lt; ten")
letter.convert(x)</pre>
```

ngram	ngram

Description

Extract an ngram of words around a pattern match in a text string

Usage

```
ngram(x, pattern, ngram = c(-3, 3), tolower = FALSE, exact = FALSE)
```

Arguments

exact

X	text to process
pattern	a search string pattern to build the ngram
ngram	a vector of length=2 that defines the number of gram on left and right side of pattern word match
tolower	Logical. If TRUE converts text and pattern to lower case

Logical. If TRUE only exact word matches will be proceses

22 standardStats

Examples

```
text<-"One hundred twenty-eight students participated in our Study,
that was administred in thirteen clinics."
ngram(text,pattern="study",ngram=c(-1,2))</pre>
```

standardStats

standardStats

Description

Extract and standard statistical results like Z, t, Cohen's d, F, eta^2, r, R^2, chi^2, BF_10, Q, U, H, OR, RR, beta values

Usage

```
standardStats(
    x,
    stats.mode = "all",
    recalculate.p = TRUE,
    alternative = "undirected",
    estimateZ = FALSE,
    T2t = FALSE,
    R2r = FALSE,
    rm.na.col = TRUE
)
```

Arguments

R2r

rm.na.col

x	result of get.stats()
stats.mode	Select subset of standard stats. One of: "all", "checkable", "computable", "uncomputable"
recalculate.p	Logical. If TRUE recalculates p values (for 2 sided test) if possible
alternative	Character. Select sidedness of recomputed p-values from t-, r- and beta-values. One of $c("undirected","directed","both")$
estimateZ	Logical. If TRUE detected beta-/d-value is divided by reported standard error "SE" to estimate Z-value ("Zest") for observed beta/d and recompute p-value. Note: This is only valid, if Gauss-Marcov assumptions are met and a sufficiently large sample size is used. If a Z- or t-value is detected in a report of a beta-/d-coefficient with SE, no estimation will be performed, although set to TRUE.
T2t	Logical. If TRUE capital letter T is treated as t-statistic

Logical. If TRUE capital letter R is treated as correlation Logical. If TRUE removes all columns with only NA

strsplit2 23

Examples

```
x<-c("t(38.8)<=>1.96, p=.002", "F(2,39)<=>4, p<=>.05", "U(2)=200, p>.25", "Z<=>2.1, F(20.8,22.6)=200, p<.005, BF(01)<=>4", "chi=3.2, r(34)<=>-.7, p<.01, R2=76\%.") standardStats(x)
```

strsplit2

strsplit2

Description

Extension of strsplit(). Makes it possible to split lines "before" or "after" a pattern match

Usage

```
strsplit2(x, split, type = "remove", perl = FALSE)
```

Arguments

```
x text to process

split pattern to split text at

type one out of "remove", "before", "after"

perl Logical. If TRUE uses perl expressions
```

Examples

```
x<-"This is some text, where text is the split pattern of the text." strsplit2(x,"text","after")
```

study.character

study.character

Description

extracts study characteristics out of a JATS coded XML file or JATSdecoder result

24 study.character

Usage

```
study.character(
    x,
    stats.mode = "all",
    recalculate.p = TRUE,
    alternative = "auto",
    estimateZ = FALSE,
    T2t = FALSE,
    R2r = FALSE,
    captions = TRUE,
    text.mode = 1,
    update.package.list = FALSE,
    add.software = NULL,
    quantileDF = 0.75,
    N.max.only = FALSE,
    output = "all"
)
```

Arguments

x JATS coded XML file or JATSdecoder result

stats.mode Character. Select subset of standard stats. One of: "all", "checkable", "com-

putable"

recalculate.p Logical. If TRUE recalculates p values (for 2 sided test) if possible

alternative Character. Select sidedness of recomputed p-values for t-, r- and Z-values. One

of c("auto", "undirected", "directed", "both"). If set to "auto" 'alternative' will be be set to 'both' if get.test.direction() detects one-directional hypotheses/tests in text. If no directional hypotheses/tests are dtected only "undirected" recomputed

p-values will be returned

estimateZ Logical. If TRUE detected beta-/d-value is divided by reported standard error

"SE" to estimate Z-value ("Zest") for observed beta/d and recompute p-value. Note: This is only valid, if Gauss-Marcov assumptions are met and a sufficiently large sample size is used. If a Z- or t-value is detected in a report of a beta-/d-coefficient with SE, no estimation will be performed, although set to TRUE.

T2t Logical. If TRUE capital letter T is treated as t-statistic when extracting statistics

with get.stats()

R2r Logical. If TRUE capital letter R is treated as correlation when extracting statis-

tics with get.stats()

captions Logical. If TRUE captions text will be scanned for statistical results

text.mode text parts to extract statistical results from (text.mode=1: abstract and full text,

text.mode=2: method and result section, text.mode=3: result section only)

update.package.list

if TRUE updates available R packages with available.packages() function

add. software additional software names to detect as vector

quantileDF quantile of (df1+1)+(df2+1) to extract for estimating sample size

study.type 25

N.max.only return only maximum of estimated sample sizes

output selection of specific results c("all", "doi", "title", "year", "n.studies",

"methods", "alpha.error", "power", "multi.comparison.correction", "assumptions", "OutlierRemovalInSD", "InteractionModeratorMediatorEffect", "test.direction",

"sig. adjectives", "software", "Rpackage", "stats", "standardStats", "estimated.sample.size")

study.type study.type

Description

function to identify type of study by list of study types

Usage

```
study.type(title = NULL, text = NULL)
```

Arguments

title articles title text
text main text to process

Examples

study.type("We performed a randomized treatment control trail with waiting group")

text2num

text2num Convert special annotated number and written numbers in a text string to a fully digit representation Can handle numbers with exponent, fraction, percent, e+num, products and written representation (e.g. 'fourtys-one') of all absolut numbers till 99,999 (Note: gives false returns for higher numbers). Process is performed in the same order as its arguments.

Description

text2num Convert special annotated number and written numbers in a text string to a fully digit representation Can handle numbers with exponent, fraction, percent, e+num, products and written representation (e.g. 'fourtys-one') of all absolut numbers till 99,999 (Note: gives false returns for higher numbers). Process is performed in the same order as its arguments.

26 text2sentences

Usage

```
text2num(
    x,
    exponent = TRUE,
    percentage = TRUE,
    fraction = TRUE,
    e = TRUE,
    product = TRUE,
    words = TRUE
)
```

Arguments

X	text to process
exponent	Logical. If TRUE values with exponent are converted to a digit representation
percentage	Logical. If TRUE percentages are converted to a digit representation
fraction	Logical. If TRUE fractions are converted to a digit representation
е	Logical. If TRUE values denoted with num e+num (e.g. '2e+2') are converted to a digit representation
product	Logical. If TRUE values products are converted to a digit representation
words	Logical. If TRUE written numbers are converted to a digit representation

Examples

```
x<-c("numbers with exponent: -2^3, .2^-2, -.3^.2, 49^-.5, 2^10.",
    "numbers with percentage: 2%, 15 %, 25 percent.",
    "numbers with fractions: 1/100, -2/5, -7/-.1",
    "numbers with e: 10e+2, -20e3, .2E-2, 2e4",
    "numbers as products: 100*2, -20*.1, 2*10^3",
    "written numbers: twenty-two, one hundred fourty five",
    "mix: one hundred ten is not 1/10 is not 10^2 nor 10%/5")
text2num(x)</pre>
```

text2sentences

text2sentences

Description

Convert floating text to a vector with sentences via fine tuned regular expressions or NLP sentence tokenization

Usage

```
text2sentences(x)
```

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Arguments

x text to process

Examples

```
x<-"Some text with result (t(18)=1.2, p<.05). This shows how text2sentences works." text2sentences(x)
```

which.term

which.term

Description

Returns search element/s from vector that is/are present in text or returns search term hit vector for all terms

Usage

```
which.term(x, terms, tolower = TRUE, hits_only = FALSE)
```

Arguments

x text to process terms search terms

tolower Logical. If TRUE converts search terms and text to lower case

hits_only Logical. If TRUE returns search pattern/s, that were found in text and not a

search term hit vector

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