# Package 'TeXCheckR'

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TeXCheckR-package	TeXCheckR
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#### **Description**

Checks LaTeX documents and .bib files for typing errors, such as spelling errors, incorrect quotation marks. Also provides useful functions for parsing and linting bibliography files.

# **Description**

Are any bib entries duplicated?

#### Usage

```
any_bib_duplicates(bib.files, .report_error, rstudio = FALSE)
```

#### **Arguments**

bib.files Files to check for duplicates
.report\_error How errors should be logged.
rstudio Use the RStudio API?

#### **Details**

This function is very fastidious about the format of bib. files. Run lint\_bib (noting that this will overwrite your bibliography) if it complains.

This function finds exact duplicates in the author title date/year and volume fields. Note that it is not possible in general to detect actual duplicates; you will still need to inspect the printed bibliography.

#### Value

Called for its side-effect. If duplicates are detected, the first six are printed as a data.table; otherwise, NULL, invisibly.

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argument\_parsing

Replace nth arguments

#### **Description**

Replace nth arguments

#### Usage

```
replace_nth_LaTeX_argument(
  tex_lines,
  command_name,
 n = 1L
  replacement = "correct",
  optional = FALSE,
 warn = TRUE,
  .dummy\_replacement = "Qq"
)
nth_arg_positions(
  tex_lines,
  command_name,
  n = 1L
 optional = FALSE,
  star = TRUE,
 data.tables = TRUE,
  allow_stringi = TRUE
)
```

#### **Arguments**

tex\_lines A character vector of a LaTeX file (as read in from readLines or readr::read\_lines).

command\_name The command name, or the pattern of the command, without the initial back-

slash.

n Which argument of the command.

replacement What to replace the nth argument with.

optional If FALSE, the default, the nth mandatory argument is extracted. If TRUE, the nth

optional argument is extracted.

warn If the nth argument is not present, emit a warning? Set to FALSE for n-ary com-

mands.

.dummy\_replacement

An intermediate replacement value. This value cannot be present in tex\_lines.

star Assume the starred version of the command. That is, assume that the contents

of the argument lies on a single line.

 ${\tt data.tables} \qquad {\tt Should\ each\ element\ of\ the\ list\ be\ a\ data.table?\ Set\ to\ FALSE\ for\ performance.}$ 

allow\_stringi (logical, default: TRUE) If FALSE, non-stringi functions are allowed.

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#### **Details**

nth\_arg\_positions reports the starts and stops of the command for every line. This includes the braces (in order to accommodate instances where the argument is empty).

If the line is empty or does not contain the command the values of starts and stops are NA\_integer\_.

#### **Examples**

```
nth_arg_positions("This is a \\textbf{strong} statement.", "textbf")
replace_nth_LaTeX_argument("This is a \\textbf{strong} statement.", "textbf")
```

bib\_parser

Functions for parsing .bib files

# Description

Functions for parsing .bib files

#### Usage

```
fread_bib(
   file.bib,
   check.dup.keys = TRUE,
   strip.braces = TRUE,
   check.unescaped.percent = TRUE,
   .bib_expected = TRUE,
   halt = TRUE,
   rstudio = FALSE,
   .report_error
)
bib2DT(file.bib, to_sort = FALSE)
reorder_bib(file.bib, outfile.bib = file.bib)
```

#### **Arguments**

```
file.bib .bib file.

check.dup.keys If TRUE, the default, return error if any bib keys are duplicates.

strip.braces If TRUE, the default, braces in fields are removed.

check.unescaped.percent

If TRUE, the default, fields with unescaped percent signs are an error. (Unescaped percent signs in URLs are permitted.) Set to FALSE to skip this check.

.bib_expected (logical, default: TRUE) Should file.bib be expected to have file extension .bib? If expectation violated, a warning is emitted.
```

braces\_closes\_at

halt Whether to halt on error. If NULL, the default, the value getOption("TeXCheckR.halt\_on\_error")

is used. Otherwise, TRUE or FALSE to halt regardless of the value of the option.

rstudio (logical, default: FALSE) If TRUE, pop the RStudio session to the location in

file.bib of the first error.

.report\_error A function like report2console to handle errors.

to\_sort Include only author, title, year, and date.

outfile.bib File to write the reordered bib to. Defaults to file.bib.

#### **Details**

bib2DT returns a data.table of the entries in file.bib. The function reorder\_bib rewrites file.bib, to put it in surname, year, title, line number order.

braces\_closes\_at

Brace closes at

# Description

Where do braces close?

#### Usage

```
braces_closes_at(tex_line, position_of_opening_brace)
```

# Arguments

tex\_line A single line. position\_of\_opening\_brace

An integer giving the position of the opening brace in question.

#### Value

The positions of the closing brace matching the opening braces at position\_of\_opening\_brace.

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check\_biber Check biber

### **Description**

Check biber

# Usage

```
check_biber(path = ".", rstudio = FALSE)
```

#### **Arguments**

path The path containing the blg file, following successful compilation.

rstudio Use the RStudio API?

check\_consecutive\_words

Check consecutive typeset words

#### Description

Check consecutive typeset words

#### Usage

```
check_consecutive_words(
  path = ".",
  latex_file = NULL,
  md5sum.ok = NULL,
  outfile = NULL,
  outfile.append = FALSE
)
```

#### Arguments

path Path containing the LaTeX file.

latex\_file The LaTeX file (without path) whose output will be checked.

md5sum.ok The output of md5sum of an acceptable LaTeX file. Since some repeated words

will be spurious, you can use the md5sum of the output of this function.

outfile A file to which the output can be saved. If NULL, the default, the output is printed

to the console (and not saved).

outfile.append (logical, default: FALSE). Append or overwrite outfile if specified? If FALSE,

the default, and file exists, outfile will be overwritten.

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#### Value

NULL if the LaTeX document does not create a PDF with lines repeated. An error if words are repeated on consecutive lines, together with cat() output of the offending lines. The output is presented in 'stanzas':

for example a document that results in the following lines, notably the repetition of *household*, the output would be:

```
'household'
```

affordable. This `mortgage burden' is often defined as the proportion of household income spent on repaying a mortgage. Depending on the household income measure used, the mortgage burden on a newly purchased first home, assuming a person borrows 80 per cent of the value of the home, is currently lower than much of the period between

Lastly the error message contains the md5sum of the file is returned in the error message, so it can be supplied to md5sum.ok.

check\_dashes

Check dashes entered as hyphens

# **Description**

Check dashes entered as hyphens

#### Usage

```
check_dashes(
  filename,
    .report_error,
  dash.consistency = c("en-dash", "em-dash"),
  protases_ok = TRUE,
  rstudio = TRUE
)
```

#### **Arguments**

filename A tex or Rnw file.

.report\_error How errors should be reported.

dash.consistency

Character vector permitted dash types.

protases\_ok (logical, default: TRUE) Should em-dashes be permitted when they form a prota-

sis in a list? \item when there is an emdash---always.

rstudio (logical, default: TRUE) Use the RStudio API?

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#### Value

File stops and cat()s on any line where a hyphen is surrounded by a space. Excludes dashes in knitr chunks and LaTeX math mode (...) but not in TeX math mode ....

check\_escapes

Check escapes

# Description

Checks file for unescaped dollar signs. With these present, there is a risk of constructions like We gave \$10 to a million people at a cost of \$10~million dollars., which is valid syntax, but incorrectly formatted. Accordingly, math-mode must be more assertively requested using \(..\).

#### Usage

```
check_escapes(filename, .report_error)
```

#### **Arguments**

filename File in which to report the error .report\_error How the errors should be reported.

#### Value

An error if unescaped dollar signs are present in filename. Otherwise, NULL invisibly.

```
{\it Check\_footnote\_typography} \\ {\it Check\ footnote\ typography}
```

# Description

Check footnote typography

#### Usage

```
check_footnote_typography(
  filename,
  ignore.lines = NULL,
   .report_error,
  rstudio = FALSE
)
```

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# **Arguments**

filename A LaTeX file.

ignore.lines Lines to ignore (for example, those using the word 'footnote').

.report\_error A function to provide context to any errors.

rstudio (logical, default: FALSE) Should the RStudio API be used?

#### **Details**

See https://github.com/grattan/grattex/blob/master/doc/grattexDocumentation.pdf for full set of error conditions.

#### Value

Called for its side-effect.

# **Examples**

```
## Not run:
    tex_file <- tempfile(fileext = ".tex")
    cat("Footnote not ending with full stop.\\footnote{No sentence}", file = tex_file)
    check_footnote_typography(tex_file)
## End(Not run)</pre>
```

check\_labels

Check labels

#### **Description**

Check labels

### Usage

```
check_labels(filename, .report_error, check.chaprefs = TRUE)
```

#### **Arguments**

filename The LaTeX source file to check.

.report\_error The function to provide context to the error.

check.chaprefs (logical, default: TRUE) If TRUE, require all cross-references to use \Chapref.

#### **Details**

Checks each label has a prefix and the prefix is one of the following: fig:, tbl:, box:, chap:, sec:, eq:, subsec:, subsubsec:, para: paragraph:. Checks also that chapter labels are marked with chap:. (N.B. although each label must have a prefix, it must not necessarily the *right* prefix; for example, a table caption may have prefix tbl:.)

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#### Value

NULL, invisibly if labels check out. An error otherwise.

```
check_literal_citations
```

Check that citations are all using cites

# Description

Check that citations are all using cites

#### Usage

```
check_literal_citations(filename, .report_error)
```

# Arguments

filename TeX document

.report\_error Function to report errors

check\_literal\_xrefs Check for hard-coded cross-references

# **Description**

Check for hard-coded cross-references

# Usage

```
check_literal_xrefs(filename, .report_error)
```

# **Arguments**

filename The TeX file to check

.report\_error How errors should be reported.

#### Value

An error, or if none found, NULL invisibly.

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check\_quote\_marks

Check quote marks in TeX

#### **Description**

Checks whether a closing quote has been used at the start of a word.

# Usage

```
check_quote_marks(filename, .report_error, rstudio = FALSE)
```

#### **Arguments**

filename LaTeX filename.

.report\_error A function determining how errors will be reported.

rstudio Use the rstudioapi package to jump to the location of the first error.

#### **Examples**

```
## Not run:
    tex_file <- tempfile(fileext = ".tex")
    cat("This is the wrong 'quote' mark.", file = tex_file)
    check_quote_marks(tex_file)
    file.remove(tex_file)
## End(Not run)</pre>
```

check\_spelling

Spell checking

#### **Description**

Spell checking

#### Usage

```
check_spelling(
  filename,
  tex_root = dirname(filename),
  pre_release = TRUE,
  ignore.lines = NULL,
  known.correct = NULL,
  known.correct.fixed = NULL,
  known.wrong = NULL,
  ignore_spelling_in = NULL,
```

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```
ignore_spelling_in_nth = NULL,
bib_files,
check_etcs = TRUE,
dict_lang = "en_GB",
rstudio = FALSE,
.report_error
)
```

#### **Arguments**

filename Path to a LaTeX file to check.

tex\_root The root path of the filename. Provide this if you are checking an \input file

that has a different root directory to its parent.

pre\_release Should the document be assumed to be final? Setting to FALSE permits the use of

ignore\_spelling\_in and permits add\_to\_dictionary to be present outside

the document preamble.

ignore.lines Integer vector of lines to ignore (due to possibly spurious errors).

known.correct Character vector of patterns known to be correct (which will never be raised by

this function).

known.correct.fixed

Character vector of words known to be correct (which will never be raised by

this function).

known.wrong Character vector of patterns known to be wrong.

ignore\_spelling\_in

Command whose first mandatory argument will be ignored.

ignore\_spelling\_in\_nth

Named list of arguments to ignore; names are the commands to be ignored,

values are the nth argument to be ignored.

bib\_files Bibliography files (containing possible clues to misspellings). If supplied, and

this function would otherwise throw an error, the .bib files are read and any

author names that match the misspelled words are added to the dictionary.

check\_etcs If TRUE, stop if any variations of etc, ie, and eg are present. (If they are typed

literally, they may be formatted inconsistently. Using a macro ensures they ap-

pear consistently.)

dict\_lang Passed to hunspell::dictionary.

rstudio Use the RStudio API?

.report\_error A function to provide context to any errors. If missing, defaults to report2console.

#### **Details**

Extends and enhances hunspell:

• You can add directives in the document itself. To add a word foobaz to the dictionary (so its presence does not throw an error), write % add\_to\_dictionary: foobaz on a single line. The advantage of this method is that you can collaborate on the document without having to keep track of which spelling errors are genuine.

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• The directive % ignore\_spelling\_in: mycmd which will ignore the spelling of words within the first argument of \mycmd.

- ignore\_spelling\_in\_file: <file.tex> will skip the check of <file.tex> if it is input or include in filename, as well as any files within it. Should appear as it is within input but with the file extension
- Only the root document need be supplied; any files that are fed via \input or \include are checked (recursively).
- A historical advantages was that the contents of certain commands were not checked, the
  spelling of which need not be checked as they are not printed, viz. citation and crossreference commands, and certain optional arguments. Most of these are now parsed correctly by hunspell, though some still need to be supplied (including, naturally, user-supplied
  macros).
- Abbreviations and initialisms which are validly introduced will not throw errors. See extract\_valid\_abbrevations.
- Words preceded by '[sic]' will not throw errors.

The package comes with a suite of correctly\_spelled\_words that were not present in hunspell's dictionary.

This function should be quite fast, but slower than hunspell::hunspell (which it invokes). I aim for less than 500 ms on a real-world report of around 100 pages. The function is slower when it needs to consult bib\_files, though I recommend adding authors, titles, etc. to the dictionary explicitly, or using citeauthor and friends.

This function is forked from https://github.com/hughparsonage/grattanReporter to parse reports of the Grattan Institute, Melbourne for errors. See https://github.com/grattan/grattex/blob/master/doc/grattexDocumentation.pdf for the full spec. Some checks that package performs have been omitted in this package.

#### Value

Called primarily for its side-effect. If the spell check fails, the line at which the first error was detected, with an error message. If the check succeeds, NULL invisibly.

#### **Examples**

check\_xrefs 15

check_xrefs	Check cross-references	
-------------	------------------------	--

# Description

Check cross-references that are repetitive or (in the case of cleveref and varioref) incorrect case.

# Usage

```
check_xrefs(filename, permitted.case = c(NA, "upper", "lower"), .report_error)
```

#### Arguments

filename A LaTeX file

permitted.case One of NA, "upper", "lower". If NA, the default, both  $\colon Cref$  and  $\colon Cref$  are

permitted, but not in the same document. If upper, only \Cref is permitted; if

lower, only \cref. If NULL, the case is not checked at all.

.report\_error The function to provide context to the error.

commands\_used List all unique commands in a document

# Description

List all unique commands in a document

#### Usage

```
commands_used(tex_lines)
```

#### **Arguments**

```
tex_lines A LaTeX document as read from readr::read_lines or readLines.
```

#### Value

A character vector of unique commands used in tex\_lines.

# **Examples**

```
commands\_used(c("A \land d)", "\land def\{x\}"))
```

correctly\_spelled\_words

List of correctly spelled words

# Description

List of correctly spelled words

#### Usage

correctly\_spelled\_words

#### **Format**

A character vector of words as perl-regex patterns to skip during the spell check.

CORRECTLY\_SPELLED\_WORDS\_CASE\_SENSITIVE

List of correctly spelled, case-sensitive words

# Description

List of correctly spelled, case-sensitive words

# Usage

CORRECTLY\_SPELLED\_WORDS\_CASE\_SENSITIVE

#### **Format**

A character vector of words as perl-regex case-sensitive patterns to skip during the spell check.

```
extract_LaTeX_argument
```

Extract LaTeX command argument

# Description

 $This is a simple wrapper around \verb|extract_mandatory_LaTeX_argument| and \verb|extract_optional_LaTeX_argument|.$ 

#### Usage

```
extract_LaTeX_argument(tex_lines, command_name, n = 1L, optional = FALSE)
```

# Arguments

```
extract_mandatory_LaTeX_argument 
 Extract mandatory argument II
```

# Description

Extract mandatory argument II

#### Usage

```
extract_mandatory_LaTeX_argument(
  tex_lines,
  command_name,
  n = 1L,
  by.line = FALSE,
  parsed_doc = NULL
)
```

#### **Arguments**

tex\_lines A character vector of lines as read from a LaTeX document.

command\_name The command name (no backslash or opening brace).

n Which integer to

by.line If FALSE, the default, each row of the data.table returned has the entire con-

tents of the argument in extract column. If TRUE, the contents is split as it is in the document; arguments over multiple lines in the document are split over

multiple rows in the data. table returned.

parsed\_doc A parsed document (from parse\_tex). parse\_tex. Use this argument if the

cost of running parse\_tex is expensive (such as repeatedly over the same doc-

ument).

extract\_optional\_LaTeX\_argument

Extract optional argument

#### **Description**

Extract optional argument

#### Usage

```
extract_optional_LaTeX_argument(
  tex_lines,
  command_name,
  n = 1L,
  by.line = FALSE
)
```

#### **Arguments**

tex\_lines A character vector reading from a LaTeX document.

 ${\color{red} \textbf{command}\_\textbf{name}} \qquad Name \ of \ command \ (without \ backslash)$ 

n Which optional argument to extract.

by . line Should the output be one row per command (FALSE, the default), with extracts

concatenated via paste0(..., collapse = "") or one row per line per com-

mand?

extract\_validate\_abbreviations

Extract valid abbreviations and initialisms

#### **Description**

Extracts abbreviations which are preceded by the full text (*e.g.* 'The Quebec Xylophone Enterprise Foundation (QXEF)').

#### Usage

```
extract_validate_abbreviations(lines)
```

#### **Arguments**

lines

Lines to extract

#### **Details**

Only 'valid' abbreviations are extracted, viz. those abbreviations of the form (ABC) where the first letters of the preceding words (excluding some common words like of, and, etc.) are 'a', 'b', 'c'.

#### Value

Character vector of abbreviations of the form (ABC)

figs\_tbls\_unrefd

Return unreferenced figures or tables in document

#### **Description**

Useful for checking whether all the figures and tables in a document have been referenced in the main text. You may exclude figures and tables from the check by using the directive % may\_be\_left\_unreferenced: in the preamble before the label that is to be excluded.

#### Usage

```
figs_tbls_unrefd(filename, .report_error, check.labels = TRUE)
```

#### **Arguments**

filename A LaTeX file.

.report\_error A function to provide context to any errors.

check.labels if TRUE, the default, run check\_labels on filename to ensure the figure and

table labels in filename are in the expected form or style. Set to FALSE for

possibly faster runs but the risk of spurious results.

isR\_line\_in\_knitr

#### Value

The labels of any figure or table left unreferenced in filename (including inputs).

inputs\_of

Inputs to files nested within LaTeX document

#### **Description**

Inputs to files nested within LaTeX document

# Usage

```
inputs_of(filename, exclude.preamble = TRUE, append.tex = TRUE)
```

# Arguments

filename The file whose \inputs are to be extracted.

exclude.preamble

(logical) If TRUE, the default, only \inputs and \includes within the document

environment are returned.

append.tex

Should the result include the file extension .tex? By default, TRUE. Setting to

FALSE may be useful when the file is not a . tex file.

#### Value

A character vector of file paths relative to filename that are used as \inputs or \includes within filename. If no such files are present within filename, NULL is returned.

isR\_line\_in\_knitr

Is a line in knitr R or not?

#### **Description**

Is a line in knitr R or not?

# Usage

```
isR_line_in_knitr(lines)
```

#### **Arguments**

lines

Lines to check, as in the result of readLines. Not a filename.

#### Value

TRUE if in knitr chunk (including boundaries). FALSE otherwise.

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lint\_bib Tidy bibliography so equals signs align

#### **Description**

Tidy bibliography so equals signs align

#### Usage

```
lint_bib(bib_file, outfile = bib_file, leading_spaces = 2L)
```

#### **Arguments**

bib\_file The bib file to tidy.

outfile Optionally, the tidied bib file to write to.

leading\_spaces The number of spaces before each field within an entry.

#### **Details**

Aligns the equals signs in bib\_file and ensures all fields have a trailing comma.

```
locate_mandatory_LaTeX_argument
```

Locate contents of LaTeX commands

#### **Description**

Provides the locations of LaTeX commands with mandatory arguments.

# Usage

```
locate_mandatory_LaTeX_argument(
  tex_lines,
  command_name,
  n = 1L,
  parsed_doc = NULL
)
```

#### **Arguments**

 $tex\_lines \qquad A \ character \ vector \ of \ a \ LaTeX \ document, -for \ example \ as \ obtained \ from \ readLines ("mydoc.tex").$ 

n Integer vector: which argument(s) to locate. If n = NA, the n-th argument posi-

tions for all n.

parsed\_doc The result of parse\_tex(tex\_lines).

parse\_tex

minimal_bib Generate a minimal bibliography file
--

#### **Description**

Generate a minimal bibliography file

# Usage

```
minimal_bib(path = ".", bbl.file = NULL, bib.files = NULL, out.bib = bib.files)
```

# Arguments

bbl.file A .bbl file.	tex.
bib.files The .bib file or files that were used by BibLaTeX to produce the bibl NULL, the default, the files are inferred from the contents of \\addbi within the (unique) .tex file are used.	C 1 .
out.bib The new file of bibliography.	

parse_tex	Parse LaTeX lines	
-----------	-------------------	--

# Description

Parse LaTeX lines

# Usage

```
parse_tex(tex_lines)
```

#### **Arguments**

tex\_lines Character vector (as read from a . tex file).

#### Value

A data.table where each row identifies a unique character in tex\_lines.

line\_no Matches the index of tex\_lines.

char\_no The character within line\_no.

char The character. A single character.

tex\_group The TeX group by default. Any delimiters can be used.

optional\_tex\_group (If any present), the optional TeX group.

position\_of\_string 23

```
tgi The number of braces opened at the i-th current TeX group level.
```

GROUP\_IDi An integer identifying the unique contiguous block at the TeX group at or above the current group level.

```
GROUP_IDi The analog for optional groups.
```

If tex\_lines is zero-length, a null data.table.

#### **Examples**

```
parse\_tex(c("A{})", "B[a]{b{c}{d}}z"))
# The version transposed:
#
#>
            char : A{B[a]{b{c}{d}}z}
#>
             tg1: 011111122.....22
             tg2 : 00000000011122222
#>
#>
             og1 : 00001111111111111
#>
      GROUP_ID1 : .11....222222222.
#>
      GROUP_ID2 : ......111222...
#> OPT_GROUP_ID1 : ....111......
```

position\_of\_string

Position of strings

#### Description

Position of strings

#### Usage

```
position_of_string(tex_line_split, command_split, end = TRUE)
positions_of_all_strings(tex_line, command_name, end = TRUE)
```

# **Arguments**

```
tex_line_split A split line (via strsplit(x, split = "")).
command_split The string the position of which is desired, split (via strsplit(x, split = "")).
end (logical) Should the position of the end of the string. By default, TRUE; otherwise, the start of the string is chosen.
tex_line A line of text.
command_name The string the position of which is desired.
```

#### Value

The end (or start if end = FALSE) of the location of command

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read\_tex\_document

Read a LaTeX document

# **Description**

Read a LaTeX document

# Usage

```
read_tex_document(file_root)
```

#### **Arguments**

file\_root

The root of the TeX file.

report\_error

Report errors to console

# Description

Report errors to console

### Usage

```
report2console(
  file = NULL,
 line_no = NULL,
 column = NULL,
  context = NULL,
 error_message = NULL,
 advice = NULL,
 build_status = NULL,
  extra_cat_ante = NULL,
 extra_cat_post = NULL,
  caret = FALSE,
  rstudio = FALSE,
  log_file = NULL,
  log_file_sep = "|",
  silent = FALSE,
 halt = getOption("TeXCheckR.halt_on_error", FALSE),
  as_tbl = getOption("TeXCheckR.error_as_tbl", FALSE)
)
```

#### **Arguments**

file The file in which the error occurred.

line\_no The line number locating the source of the error.

column The position on the line to identify the error (usually following the error).

context The content of the file, to provide context to the error.

error\_message The error message to display beyond the console.

advice Advice to the user: how should the detected error be resolved in general?

build\_status What should the build status be reported as?

extra\_cat\_ante Character vector extra messages (placed before context).
extra\_cat\_post Character vector extra messages (placed after context).

caret (logical, default: FALSE) Should a caret symbol be placed beneath the context

to point to the location of the error? The caret will be inserted on a new line

after error\_message and extra\_cat\_post.

Length-one integer values of caret are permitted and will be interpreted as the

number of caret symbols to be inserted at the position.

rstudio If available, should the report be allowed to modify the RStudio session (for

example, to pop to the location of the error)?

log\_file Optionally, path to a log file on which error\_message will be written.

log\_file\_sep How should the log file's fields be separated? By default, with a pipe (as tabs

are common within error messages).

silent (logical, default: FALSE) Suppress all output.

halt Should failures halt via stop or just display a message in the console?

as\_tbl Return a list. Experimental.

rm\_editorial\_square\_brackets

Remove editorial square brackets

#### Description

Change text such as phas[e] out to phase out, without removing square brackets denoting optional arguments.

# Usage

```
rm_editorial_square_brackets(tex_lines)
```

#### **Arguments**

tex\_lines Lines (as from readLines).

26 split\_report

#### **Examples**

```
x <- "the BCA's call to `urgently phas[e] out all side deals'" rm_editorial_square_brackets(x)
```

separate\_sentences

Put sentences on their own line

#### **Description**

Put sentences on their own line

### Usage

```
separate_sentences(filename, hanging_footnotes = FALSE)
```

#### **Arguments**

```
filename A tex or knitr file in which to separate sentences.

hanging_footnotes

(logical, default: FALSE) Should footnotes be indented?
```

#### Value

NULL. The function is called for its side-effect: rewriting filename with separated sentences.

split\_report

Split report into include-able files

# Description

Split report into include-able files

# Usage

```
split_report(
  Report.tex,
  include = TRUE,
  subdir = "tex",
  use.chapter.title = TRUE,
  out.tex = Report.tex
)
```

strip\_comments 27

#### **Arguments**

Report.tex File to split.

include Should \include or \input be used? If TRUE, the default, \include is used.

subdir What directory should each chapter file be written in? By default, a subdirectory

of the folder containing Report. tex, called tex, is used.

use.chapter.title

Should the chapter title be used to name the chapter files? If TRUE, the default, the title is used (with characters outside [a-zA-Z0-9] replaced by spaces), prefixed by the chapter number; otherwise, just the chapter number is used.

out.tex The new root file. By default, same as Report.tex.

strip\_comments

Strip comments from LaTeX lines

#### **Description**

Strip comments from LaTeX lines

#### Usage

```
strip_comments(lines, retain.percent.symbol = TRUE)
```

#### **Arguments**

lines Character vector of a LaTeX document.

retain.percent.symbol

(logical, default: TRUE) Should the % symbol itself be stripped?

#### Value

lines but with all text to the right of every unescaped % removed

# Examples

```
some_lines <- c("Text. % A comment", "20\\% of comments are % useful")
strip_comments(some_lines)
strip_comments(some_lines, retain.percent.symbol = FALSE)</pre>
```

validate\_bibliography

tex\_group\_by\_char

TeX group by character position

#### **Description**

Opening a brace increases the 'group' in TeX. For example, in  $a\{bc\}\{d\{e\}\}$  a is in group 0, bc in group 1 as is d and e is in group 2.

#### Usage

```
tex_group_by_char(tex_lines, optional = FALSE)
```

#### **Arguments**

tex\_lines Character vector of a document LaTeX.

optional If FALSE (the default), the groups are taken with respect to braces. If TRUE,

square brackets are used (perhaps not associated with a command).

#### Value

A list the same length as lines. Each element an integer vector indicating the TeX group at that position.

For positions **at** braces the **upcoming** group is returned. So a{b} should return 0 1 1 0 (in its first element).

# **Examples**

```
tex_group_by_char("a{bc}{d{e}})")
```

validate\_bibliography Validate bibliography according to Grattan style

#### **Description**

Validate bibliography according to Grattan style

#### Usage

```
validate_bibliography(path = ".", file = NULL, .report_error, rstudio = FALSE)
```

#### **Arguments**

path Containing the bib file.

file The bib file if specified.

.report\_error How errors should be reported.

rstudio Use the RStudio API to jump to errors.

#### **Details**

This is a highly fastidious test of the bibliography. Useful for collaboration to ensure consistent style.

#### Value

NULL if bibliography validated.

#### **Examples**

```
## Not run:
bib_temp <- tempfile(fileext = ".bib")</pre>
url_bib <-
  paste0("https://raw.githubusercontent.com/HughParsonage/",
         "grattex/e6cab97145d38890e44e83d122e995e3b8936fc6",
         "/bib/Grattan-Master-Bibliography.bib")
download.file(url_bib, destfile = bib_temp)
validate_bibliography(file = bib_temp)
bib_temp <- tempfile(fileext = ".bib")</pre>
url_bib <-
  paste0("https://raw.githubusercontent.com/HughParsonage/",
         "grattex/8f7f52a28789d12a363ceb30cea3b41f590ae58a",
         "/bib/Grattan-Master-Bibliography.bib")
download.file(url_bib, destfile = bib_temp)
validate_bibliography(file = bib_temp)
## End(Not run)
```

```
valid_English_contractions
```

Valid English contractions

# Description

List of words which should never raise a spelling error.

# Usage

```
valid_English_contractions
```

#### **Format**

An object of class character of length 110.

30 weld\_bmillion

#### Source

https://gist.githubusercontent.com/J3RN/ed7b420a6ea1d5bd6d06/raw/acda66b325a2b4d7282fb602a7551912cdcontractions.txt

veto\_sic

Veto sic

#### **Description**

Vetoes words in a LaTeX document that are marked '[sic]' for the purpose of spell checking by replacing them (and '[sic]' itself) with white space of equal length.

#### Usage

```
veto_sic(tex_lines, quote = TRUE, sentence = !quote, words_ante = 1L)
```

#### **Arguments**

tex\_lines A character vector.

quote (logical, default: TRUE) Veto words after the previous opening quote (i.e. back-

tick) symbol.

sentence (logical, default: TRUE) Veto words before [sic] in the same sentence. (The start

of a sentence is taken to be the location of the capital letter which is preceded

by white space and a full stop.)

words\_ante The number of words to exclude. Ignored if quote or sentence is TRUE.

weld\_bmillion

Unbreaking spaces between billion and million

# Description

Unbreaking spaces between billion and million

#### **Usage**

```
weld_bmillion(filename, outfile = filename)
```

# Arguments

filename A LaTeX or knitr file.

outfile The file to write to, defaults to filename.

# Value

NULL. This function is called for its side-effect: rewriting filename with 30 million changed to 30~million.

 $wrongly\_spelled\_words \quad \textit{List of wrongly spelled words}$ 

# Description

List of wrongly spelled words

# Usage

wrongly\_spelled\_words

# **Format**

A regex of patterns to raise as spelling errors.

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