## Package 'statcheck'

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Type Package Title Extract Statistics from Articles and Recompute p Values Version 1.3.0 Date 2018-05-04 Author Sacha Epskamp <mail@sachaepskamp.com> & Michele B. Nuijten <m.b.nuijten@uvt.nl> Maintainer Michele B. Nuijten <m.b.nuijten@uvt.nl> **Depends** R (>= 2.14.2) Imports plyr, ggplot2, rmarkdown Description Extract statistics from articles and recompute p values. License GPL-2 LazyLoad yes ByteCompile yes NeedsCompilation no **Repository** CRAN Date/Publication 2018-05-04 11:03:58 UTC

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statcheck-package

#### Description

Extract statistics from articles and recompute p values.

## Details

| Package:     | statcheck  |
|--------------|--|
| Type:        | Package  |
| Title:       | Extract statistics from articles and recompute p values  |
| Version:     | 1.0.0  |
| Date:        | 2014-11-15   |
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| Depends:     | R (>= 2.14.2), plyr  |
| License:     | GPL-2  |
| LazyLoad:    | yes  |
| ByteCompile: | yes  |
|              |  |

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checkdir

Extract test statistics from all HTML and PDF files in a folder.

#### Description

Extracts statistical references from a directory with HTML and PDF files. The "pdftotext" program is used to convert PDF files to plain text files. This must be installed and PATH variables must be properly set so that this program can be used from command line.

By default a gui window is opened that allows you to choose the directory (using tcltk).

### Usage

checkdir(dir, subdir = TRUE, ...)

#### checkdir

#### Arguments

| dir    | String indicating the directory to be used. If this is left empty, a window will pop up from which you can choose a directory. |
|--------|--|
| subdir | Logical indicating whether you also want to check subfolders. Defaults to TRUE   |
|        | Arguments sent to statcheck.   |

## Details

See statcheck for more details. This function is a wrapper around both checkPDFdir for PDF files and checkHTMLdir for HTML files.

Depending on the PDF file the comparison operators (=/</>) can sometimes not be converted correctly, causing these to not be reported in the output. Using html versions of articles is recommended for more stable results.

Note that the conversion to plain text and extraction of statistics can result in errors. Some statistical values can be missed, especially if the notation is unconventional. It is recommended to manually check some of the results.

#### Value

| Source           | Name of the file of which the statistic is extracted   |  |  |
|------------------|--|--|--|
| Statistic        | Character indicating the statistic that is extracted   |  |  |
| df1              | First degree of freedom  |  |  |
| df2              | Second degree of freedom (if applicable)   |  |  |
| Test.Comparison  |  |  |  |
|                  | Reported comparison of the test statistic, when importing from pdf this will often not be converted properly |  |  |
| Value            | Reported value of the statistic  |  |  |
| Reported.Compar  | ison   |  |  |
|                  | Reported comparison, when importing from pdf this might not be converted properly                            |  |  |
| Reported.P.Value |  |  |  |
|                  | The reported p-value, or NA if the reported value was NS   |  |  |
| Computed         | The recomputed p-value   |  |  |
| Raw              | Raw string of the statistical reference that is extracted  |  |  |
| Error            | The computed p value is not congruent with the reported p value  |  |  |
| DecisionError    | The reported result is significant whereas the recomputed result is not, or vice versa.                      |  |  |
| OneTail          | Logical. Is it likely that the reported p value resulted from a correction for one-<br>sided testing?        |  |  |
| OneTailedInTxt   | Logical. Does the text contain the string "sided", "tailed", and/or "directional"?                           |  |  |
| CopyPaste        | Logical. Does the exact string of the extracted raw results occur anywhere else in the article?              |  |  |

## checkHTML

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## See Also

statcheck, checkPDF, checkHTMLdir, checkHTMLdir

### Examples

# with this command a menu will pop up from which you can select the directory with articles

# checkdir()

# you could also specify the directory beforehand

# for instance:

# DIR <- "C:/mydocuments/articles"</pre>

# checkdir(DIR)

checkHTML

Extract test statistics from HTML file.

## Description

Extracts statistical references from given HTML files.

## Usage

checkHTML(files, ...)

#### Arguments

| files | Vector of strings containing file paths to HTML files to check. |
|-------|---|
|       | Arguments sent to statcheck.                                    |

#### checkHTML

## Details

See statcheck for more details. Use checkHTMLdir to import al HTML files in a given directory at once.

Note that the conversion to plain text and extraction of statistics can result in errors. Some statistical values can be missed, especially if the notation is unconvetional. It is recommended to manually check some of the results.

## Value

A data frame containing for each extracted statistic:

| Source           | Name of the file of which the statistic is extracted                                    |  |  |
|------------------|---|--|--|
| Statistic        | Character indicating the statistic that is extracted                                    |  |  |
| df1              | First degree of freedom   |  |  |
| df2              | Second degree of freedom (if applicable)  |  |  |
| Value            | Reported value of the statistic   |  |  |
| Reported.Compar  | ison  |  |  |
|                  | Reported comparison, when importing from pdf this will often not be converted properly  |  |  |
| Reported.P.Value |   |  |  |
|                  | The reported p-value, or NA if the reported value was NS                                |  |  |
| Computed         | The recomputed p-value  |  |  |
| Raw              | Raw string of the statistical reference that is extracted                               |  |  |
| InExactError     | Error in inexactly reported p values as compared to the recalculated p values           |  |  |
| ExactError       | Error in exactly reported p values as compared to the recalculated p values             |  |  |
| DecisionError    | The reported result is significant whereas the recomputed result is not, or vice versa. |  |  |

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## See Also

statcheck, checkPDF, checkPDFdir, checkHTMLdir, checkdir

## Examples

# given that my HTML file is called "article.html"

# and I saved it in "C:/mydocuments/articles"

#checkHTML("C:/mydocuments/articles/article.html")

checkHTMLdir Extract test statistics from all HTML files in a folder.

## Description

Extracts statistical references from a directory with HTML versions of articles. By default a GUI window is opened that allows you to choose the directory (using tcltk).

#### Usage

checkHTMLdir(dir, subdir = TRUE, extension=TRUE, ...)

#### Arguments

| dir       | String indicating the directory to be used.  |
|-----------|--|
| subdir    | Logical indicating whether you also want to check subfolders. Defaults to TRUE     |
| extension | Logical, indicating whether the HTML extension should be checked. Defaults to TRUE |
|           | Arguments sent to statcheck  |

## Details

See statcheck for more details. Use checkHTML to import individual HTML files.

Note that the conversion to plain text and extraction of statistics can result in errors. Some statistical values can be missed, especially if the notation is unconventional. It is recommended to manually check some of the results.

## Value

| Source          | Name of the file of which the statistic is extracted   |
|-----------------|--|
| Statistic       | Character indicating the statistic that is extracted   |
| df1             | First degree of freedom  |
| df2             | Second degree of freedom (if applicable)   |
| Test.Comparison |  |
|                 | Reported comparison of the test statistic, when importing from pdf this will often not be converted properly |

#### checkHTMLdir

| Value           | Reported value of the statistic   |  |  |
|-----------------|---|--|--|
| Reported.Compar | ison  |  |  |
|                 | Reported comparison, when importing from pdf this might not be converted properly                     |  |  |
| Reported.P.Valu | le  |  |  |
|                 | The reported p-value, or NA if the reported value was NS  |  |  |
| Computed        | The recomputed p-value  |  |  |
| Raw             | Raw string of the statistical reference that is extracted   |  |  |
| Error           | The computed p value is not congruent with the reported p value                                       |  |  |
| DecisionError   | The reported result is significant whereas the recomputed result is not, or vice versa.               |  |  |
| OneTail         | Logical. Is it likely that the reported p value resulted from a correction for one-<br>sided testing? |  |  |
| OneTailedInTxt  | Logical. Does the text contain the string "sided", "tailed", and/or "directional"?                    |  |  |
| CopyPaste       | Logical. Does the exact string of the extracted raw results occur anywhere else in the article?       |  |  |

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## See Also

statcheck, checkPDF, checkPDFdir, checkHTML, checkdir

## Examples

# with this command a menu will pop up from which you can select the directory with HTML articles

# checkHTMLdir()

- # you could also specify the directory beforehand
- # for instance:
- # DIR <- "C:/mydocuments/articles"</pre>
- # checkHTMLdir(DIR)

#### checkPDF

#### Description

Extracts statistical values (currently only t and F statistics) from PDF files. To this end the "pdftotext" program is used to convert PDF files to plain text files. This must be installed and PATH variables must be properly set so that this program can be used from command line.

## Usage

checkPDF(files, ...)

#### Arguments

| files | Vector with paths to the PDF files |
|-------|------------------------------------|
|       | Arguments sent to statcheck        |

## Details

See statcheck for more details. Use checkPDFdir to import every PDF file in a given directory. Currently only statistics in the form "(stat (df1, df2) = value, p = value)" are extracted.

Note that this function is still in development. Some statistical values can be missed, especially if the notation is unconvetional. It is recommended to manually check some of the results.

#### Value

| Source          | Name of the file of which the statistic is extracted                                    |  |  |
|-----------------|---|--|--|
| Statistic       | Character indicating the statistic that is extracted                                    |  |  |
| df1             | First degree of freedom   |  |  |
| df2             | Second degree of freedom (if applicable)  |  |  |
| Value           | Reported value of the statistic   |  |  |
| Reported.Compar | ison  |  |  |
|                 | Reported comparison, when importing from pdf this will often not be converted properly  |  |  |
| Reported.P.Valu | e   |  |  |
|                 | The reported p-value, or NA if the reported value was NS                                |  |  |
| Computed        | The recomputed p-value  |  |  |
| Raw             | Raw string of the statistical reference that is extracted                               |  |  |
| InExactError    | Error in inexactly reported p values as compared to the recalculated p values           |  |  |
| ExactError      | Error in exactly reported p values as compared to the recalculated p values             |  |  |
| DecisionError   | The reported result is significant whereas the recomputed result is not, or vice versa. |  |  |

#### checkPDFdir

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#### See Also

statcheck, checkPDFdir

#### Examples

# given that my PDF file is called "article.pdf"

# and I saved it in "C:/mydocuments/articles"

# checkPDF("C:/mydocuments/articles/article.pdf")

| checkPDFdir | Extract statistics and recompute p values from a | i directory with pdf |
|-------------|--|----------------------|
|             | files.   |                      |

## Description

Extracts statistical references from a directory with PDF files. The "pdftotext" program (http://www.foolabs.com/xpdf/downle is used to convert PDF files to plain text files. This must be installed and PATH variables must be properly set so that this program can be used from command line.

By default a GUI window is opened that allows you to choose the directory (using tcltk).

#### Usage

```
checkPDFdir(dir, subdir = TRUE, ...)
```

## Arguments

| dir    | String indicating the directory to be used.                                    |
|--------|--|
| subdir | Logical indicating whether you also want to check subfolders. Defaults to TRUE |
|        | Arguments sent to statcheck.   |

## Details

See statcheck for more details. Use checkPDF to import individual PDF files. Currently only statistics in the form "stat (df1, df2) = value, p = value" are extracted. Because the Chi-square symbol can not be represented in plain text it is often lost in the conversion. Because of this Chi-square values are extracted by finding all statistical references with one degree of freedom that do not follow the symbol "t" or "r". While this does extract most Chi-square values it is possible that other statistics, possibly due to unconventional notation, are also extracted and reported as chi-square values.

Depending on the PDF file the comparison operators can sometimes not be converted correctly, causing these to not be reported in the output. Using html versions of articles and the similar function checkHTMLdir is recommended for more stable results.

Note that the conversion to plain text and extraction of statistics can result in errors. Some statistical values can be missed, especially if the notation is unconventional. It is recommended to manually check some of the results.

#### Value

A data frame containing for each extracted statistic:

| Source          | Name of the file of which the statistic is extracted   |
|-----------------|--|
| Statistic       | Character indicating the statistic that is extracted   |
| df1             | First degree of freedom  |
| df2             | Second degree of freedom (if applicable)   |
| Test.Comparisor | 1  |
|                 | Reported comparison of the test statistic, when importing from pdf this will often not be converted properly |
| Value           | Reported value of the statistic  |
| Reported.Compar | ison   |
|                 | Reported comparison, when importing from pdf this might not be converted properly                            |
| Reported.P.Valu | le   |
|                 | The reported p-value, or NA if the reported value was NS   |
| Computed        | The recomputed p-value   |
| Raw             | Raw string of the statistical reference that is extracted  |
| Error           | The computed p value is not congruent with the reported p value  |
| DecisionError   | The reported result is significant whereas the recomputed result is not, or vice versa.                      |
| OneTail         | Logical. Is it likely that the reported p value resulted from a correction for one-<br>sided testing?        |
| OneTailedInTxt  | Logical. Does the text contain the string "sided", "tailed", and/or "directional"?                           |
| CopyPaste       | Logical. Does the exact string of the extracted raw results occur anywhere else in the article?              |

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## identify.statcheck

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#### See Also

statcheck, checkPDF, checkHTMLdir, checkHTML, checkdir

### Examples

# with this command a menu will pop up from which you can select the directory with PDF articles

# checkPDFdir()

- # you could also specify the directory beforehand
- # for instance:
- # DIR <- "C:/mydocuments/articles"</pre>
- # checkPDFdir(DIR)

identify.statcheck *Identify specific points in a* statcheck *plot.* 

#### Description

With this function you can simply point and click on the datapoints in the plot to see the corresponding statcheck details, such as the paper from which the data came and the exact statistical results.

### Usage

```
## S3 method for class 'statcheck'
identify(x, alpha = 0.05, ...)
```

#### Arguments

| Х     | a statcheck object.  |
|-------|--|
| alpha | assumed level of significance in the scanned texts. Defaults to .05. |
|       | additional arguments to be passed on to the plot method.             |

## Value

This function returns both a plot and a dataframe. For the contents of the dataframe see statcheck.

## Author(s)

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## See Also

statcheck

## Examples

# given that the articles of interest are saved in "DIR"

# DIR <- "C:/mydocuments/articles"</pre>

- # stat\_result <- checkdir(DIR)</pre>
- # identify(stat\_result)

## Further instructions:

- # click on one or multiple points of interest
- # press Esc
- # a dataframe with information on the selected points will appear

plot.statcheck Plot method for "statcheck"

#### Description

Function for plotting of "statcheck" objects. Reported p values are plotted against recalculated p values, which allows the user to easily spot if articles contain miscalculations of statistical results.

#### Usage

```
## S3 method for class 'statcheck'
plot(x, alpha = 0.05, APAstyle = TRUE, group = NULL,
```

...)

## Arguments

| х        | a "statcheck" object. See statcheck.                                       |
|----------|--|
| alpha    | assumed level of significance in the scanned texts. Defaults to .05.       |
| APAstyle | if TRUE, prints plot in APA style  |
| group    | indicate grouping variable to facet plot. Only works when APAstyle==TRUE   |
|          | arguments to be passed to methods, such as graphical parameters (see par). |

## Details

If APAstyle = FALSE, inconsistencies between the reported and the recalculated p value are indicated with an orange dot. Recalculations of the p value that render a previously non significant result ( $p \ge .5$ ) as significant (p < .05), and vice versa, are considered gross errors, and are indicated with a red dot. Exactly reported p values (i.e. p = ..., as opposed to p < ... or p > ...) are indicated with a diamond.

#### Author(s)

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<m.b.nuijten@uvt.nl>. Many thanks to John Sakaluk who adapted the plot code to create graphs in APA style.

## See Also

statcheck

```
statcheck
```

#### Description

This function extracts statistics from strings and returns the extracted values, reported p-values and recomputed p-values. The package relies on the program "pdftotext", see the paragraph "Note" for details on the installation.

#### Usage

```
statcheck(x, stat = c("t", "F", "cor", "chisq", "Z", "Q"),
OneTailedTests = FALSE, alpha = 0.05, pEqualAlphaSig = TRUE, pZeroError = TRUE,
OneTailedTxt = FALSE, AllPValues = FALSE)
```

#### Arguments

| Х              | A vector of strings.  |
|----------------|---|
| stat           | "t" to extract t-values, "F" to extract F-values, "cor" to extract correlations, "chisq"to extract chi-square values, "Z" to extract Z-values, and "Q" to extract Q-values (within, between, or in general).  |
| OneTailedTests | Logical. Do we assume that all reported tests are one tailed (TRUE) or two tailed (FALSE, default)?   |
| alpha          | Assumed level of significance in the scanned texts. Defaults to .05.  |
| pEqualAlphaSig | Logical. If TRUE, statcheck counts p <= alpha as significant (default), if FALSE, statcheck counts p < alpha as significant   |
| pZeroError     | Logical. If TRUE, statcheck counts $p=.000$ as an error (because a p-value is never exactly zero, and should be reported as < .001), if FALSE, statcheck does not count $p=.000$ automatically as an error.   |
| OneTailedTxt   | Logical. If TRUE, statcheck searches the text for "one-sided", "one-tailed", and "directional" to identify the possible use of one-sided tests. If one or more of these strings is found in the text AND the result would have been correct if it was a one-sided test, the result is assumed to be indeed one-sided and is counted as correct. |
| AllPValues     | Logical. If TRUE, the output will consist of a dataframe with all detected p values, also the ones that were not part of the full results in APA format   |

## Details

statcheck uses regular expressions to find statistical results in APA format. When a statistical result deviates from APA format, statcheck will not find it. The APA formats that statcheck uses are: t(df) = value, p = value; F(df1,df2) = value, p = value; r(df) = value, p = value; [chi]2 (df, N = value) = value, p = value (N is optional, delta G is also included); Z = value, p = value; Q(df) = value, p = value

#### statcheck

value (including Qw, Qwithin, Qb, and Qbetween). All regular expressions take into account that test statistics and p values may be exactly (=) or inexactly (< or >) reported. Different spacing has also been taken into account.

This function can be used if the text of articles has already been imported in R. To import text from pdf files and automatically send the results to this function use checkPDFdir or checkPDF. To import text from HTML files use the similar functions checkHTMLdir or checkHTML. Finally, checkdir can be used to import text from both PDF and HTML files in a folder.

Note that the conversion from PDF (and sometimes also HTML) to plain text and extraction of statistics can result in errors. Some statistical values can be missed, especially if the notation is unconventional. It is recommended to manually check some of the results.

PDF files should automatically be converted to plain text files. However, if this does not work, it might help to manually install the program "pdftotext". You can obtain pdftotext from http://www.foolabs.com/xpdf/down Download and unzip the precompiled binaries. Next, add the folder with the binaries to the PATH variables so that this program can be used from command line.

Also, note that a seemingly inconsistent p value can still be correct when we take into account that the test statistic might have been rounded after calculating the corresponding p value. For instance, a reported t value of 2.35 could correspond to an actual value of 2.345 to 2.354 with a range of p values that can slightly deviate from the recomputed p value. Statcheck will not count cases like this as errors.

#### Value

| Source          | Name of the file of which the statistic is extracted   |
|-----------------|--|
| Statistic       | Character indicating the statistic that is extracted   |
| df1             | First degree of freedom (if applicable)  |
| df2             | Second degree of freedom   |
| Test.Comparisor | 1  |
|                 | Reported comparison of the test statistic, when importing from pdf this will often not be converted properly |
| Value           | Reported value of the statistic  |
| Reported.Compar | ison   |
|                 | Reported comparison, when importing from pdf this might not be converted properly                            |
| Reported.P.Valu | le   |
|                 | The reported p-value, or NA if the reported value was NS   |
| Computed        | The recomputed p-value   |
| Raw             | Raw string of the statistical reference that is extracted  |
| Error           | The computed p value is not congruent with the reported p value  |
| DecisionError   | The reported result is significant whereas the recomputed result is not, or vice versa.                      |
| OneTail         | Logical. Is it likely that the reported p value resulted from a correction for one-<br>sided testing?        |
| OneTailedInTxt  | Logical. Does the text contain the string "sided", "tailed", and/or "directional"?                           |
| APAfactor       | What proportion of all detected p-values was part of a fully APA reported result?                            |

#### Author(s)

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## See Also

checkPDF, checkHTMLdir, checkHTML, checkdir

#### Examples

```
txt <- "blablabla the effect was very significant (t(100)=1, p < 0.001)"</pre>
```

statcheck(txt)

statcheckReport Generate HTML report for statcheck output.

#### Description

This function uses R Markdown to generate a nicely formatted HTML report of statcheck output.

## Usage

statcheckReport(statcheckOutput, outputFileName, outputDir)

#### Arguments

| statcheck0utput |   |
|-----------------|---|
|                 | statcheck output of one of the following functions: statcheck(), checkPDF(), checkHTML(), checkdir(), checkPDFdir(), checkHTMLdir().  |
| outputFileName  | String specifying the file name under which you want to save the generated HTML report. The extension ".html" is automatically added, so doesn't need to be specified in this argument. |
| outputDir       | String specifying the directory in which you want to save the generated HTML report.  |

#### Details

This function temporarily saves the inserted statcheck output as an .RData file in the "output" folder in the statcheck package directory. This file is then called by the .Rmd template that is saved in the folder "rmd", also in the statcheck package directory. After the HTML report is generated, the .RData file is removed again.

## Value

An HTML report, saved in the directory specified in the argument "outputDir".

#### Author(s)

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#### See Also

statcheck, checkPDF, checkHTMLdir, checkHTML, checkHTMLdir

## Examples

#### ## Not run:

# first generate statcheck output, for instance by using the statcheck() function

txt <- "blablabla the effect was very significant (t(100)=1, p < 0.001)" stat <- statcheck(txt)

# next, use this output to generate a nice HTML report of the results

statcheckReport(stat, outputFileName="statcheckHTMLReport", outputDir="C:/mydocuments/results")

## End(Not run)

# you can now find your HTML report in the folder

# "C:/mydocuments/results" under the name "statcheckHTMLReport.html".

summary.statcheck Summary method for statcheck.

#### Description

Gives the summaries for a statcheck object.

#### Usage

## S3 method for class 'statcheck'
summary(object, ...)

#### Arguments

| object | a statcheck object.                                 |
|--------|---|
|        | additional arguments affecting the summary produced |

## Value

A data frame containing for each extracted statistic:

| Source         | Name of the file of which the statistic is extracted   |
|----------------|--|
| pValues        | The number of reported p values per article  |
| Errors         | The number of errors per article   |
| DecisionErrors | The number of errors that caused a non-significant result to be reported as sig-<br>nificant (or vice versa) per article |

## Author(s)

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## See Also

statcheck

## Examples

Text <- "blablabla the effect was very significant (t(100)=1, p < 0.001)"

Stat <- statcheck(Text)</pre>

summary(Stat)

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