

Package ‘reports’

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Type Package

Title Assist the Workflow of Writing Academic Articles and Other Reports

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Description Assists in writing reports and presentations by providing a frame work that brings together existing R, LaTeX/docx and Pandoc tools. The package is designed to be used with RStudio, MiKTeX/TeX Live/LibreOffice, knitr, knitcitations, Pandoc and pander. The user will want to download these free programs/packages to maximize the effectiveness of the reports package. Functions with two letter names are general text formatting functions for copying text from articles for inclusion as a citation.

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URL <http://trinker.github.com/reports/>

BugReports <http://github.com/trinker/reports/issues>

LazyData TRUE

Depends R (>= 2.15)

Suggests pander, knitr, knitcitations, ProjectTemplate

Collate 'CA.R' 'clean.R' 'CW.R' 'delete.R' 'doc_temp.R' 'GQ.R' 'LL.R' 'mgsub.R' 'new_report.R' 'pad.R' 'paste2.R' 'presentation.R' 'reducer.R' 'reports-package.R' 'scrubber.R' 'strWrap.R' 'templates.R' 'tex2docx.R' 'Trim.R' 'unblanker.R' 'update_bib.R' 'wc.R' 'wheresPandoc.R' 'install_pandoc.R' 'repo2github.R' 'US.R' 'reveal.js.R' 'genX.R' 'genXtract.R' 'html5.R'

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CA	<i>Capitalize Every Word of String</i>
----	--

Description

Capitalizes every word of a string.

Usage

```
CA(text = "clipboard", copy2clip = TRUE)
```

Arguments

text	character vector or text copied to the clipboard. Default is to read from the clipboard.
copy2clip	logical. If TRUE attempts to copy the output to the clipboard.

Details

This capitalizes every word of a string.

Value

Returns a character vector every word capitalized.

Warning

Ligatures are assumed to be "fi", however, these elements may be "ff", "fi", "fl", "ffi" or "ffl".

Examples

```
CA("the flexible, efficient way to do reports.")
```

CW

Count Words

Description

Tool to count words from text taken from articles.

Usage

```
CW(text = "clipboard")
```

Arguments

text	character vector or text copied to the clipboard. Default is to read from the clipboard.
------	--

Details

This function counts the number of words in a text chunk. Useful for determining if block quotes are needed in APA6. While the function accepts vectors the real increase in work flow productivity is copying from the clipboard.

Examples

```
## Not run:  
CW("I like icecream")  
  
## End(Not run)
```

delete

Easy File Handling

Description

delete - Deletes files and directories.

folder - Create a folder/directory.

Usage

```
delete(file = NULL)
```

```
folder(..., folder.name = NULL)
```

Arguments

file	The name of the file in the working directory or the path to the file to be deleted. If NULL provides a menu of files from the working directory.
...	The name(s) of the folder to be created. If both ... and folder.name are NULL creates a file in the working directory with the creation date and time stamp.
folder.name	A character vector of the name(s) of the folder to be created. Default NULL (if the ... is NULL too) creates a file in the working directory with the creation date and time stamp. Use this argument only if the directory names contain spaces.

Value

delete permanently removes a file/directory.

folder creates a folder/directory.

See Also

[unlink](#), [file.remove](#), [dir.create](#)

Examples

```
## Not run:
(x <- folder("DELETE.ME"))
which(dir() == "DELETE.ME")
delete("DELETE.ME")
which(dir() == "DELETE.ME")

folder(cat, dog)
lapply(c("cat", "dog"), delete)

## End(Not run)
```

doc_temp	<i>Document Template</i>
----------	--------------------------

Description

This function generates a document template for submission to the reports package to be inclusion as a template in the doc_library. This function is similar to [package.skeleton](#).

Usage

```
doc_temp(temp.name = "newDoc", doc.type = "tex",
        path = getwd())
```

Arguments

temp.name	The name of the template.
doc.type	The type of report that the template will contain ("doc", "rnw", "tex" or "web"). "doc" will contain a .docx document; "rnw" and "tex" contain both doc.rnw/doc.tex and preamble.tex files; whereas "web" contains doc.rmd/.
path	The path to where the project should be created. Default is the current working directory.

Details

templates must contain the following two items:

- DESCRIPTION - A file used to keep track of users and package information. All fields must be filled in.
- documents - A minimal working document template.
 - If doc.type = rnw - Must contain: doc.rnw (preamble included)
 - If doc.type = tex - Must contain: doc.tex and preamble.tex
 - If doc.type = rmd - Must contain: doc.rmd
 - If doc.type = docx - Must contain: doc.docx

Additional project files and directories can be stored in the inst directory. Files in this directory will be placed in the main directory of the template created by [new_report](#)

To be submitted a .tex template must run in Debian TeX Live on Linux Mint and MiKTeX on Windows. After a template has been tested it can be sent as a .zip file to reports.rpackage@gmail.com. Please note that the template folder/directory name must end in _tex, _rnw, _web or _doc to indicate to users type of template.

Value

Creates a document template framework for template personal use or submission.

GQ

Format Quotes

Description

Tool to format text taken from articles for LaTeX. Combines multiple stringed text into one string. Removes non ascii characters and hyphens.

Usage

```
GQ(quotes = TRUE, block = TRUE, text = "clipboard",
    copy2clip = TRUE)
```

Arguments

quotes	logical or c(1, r, L, R, left or right). If TRUE LaTeX style quotes (2 backticks and two single quotes) are wrapped around the text. If (l, L or left) left ticks only are used. If (r, R or right) right ticks only are used.
block	If TRUE LaTeX block quote code tags are used instead of the backticks and single quotes.
text	character vector or text copied to the clipboard. Default is to read from the clipboard.
copy2clip	logical. If TRUE attempts to copy the output to the clipboard.

Details

This function formats text for use with LaTeX documents.

Value

Returns a character vector with LaTeX formatted text.

Warning

Ligatures are assumed to be "fi", however, these elements may be "ff", "fi", "fi", "ffi" or "ffl".

 html5 *Convert md to HTML5 Slides*

Description

Uses <http://johnmacfarlane.net/pandoc/> to convert md to HTML5 **DZSlides** slides or slidy and provides minor modifications (e.g., embedded youtube and hanging indent text).

Usage

```
html5(in.file = NULL, out.file = NULL, type = "dzslides",
      ref.page = "References", refs.cex = 15,
      path = file.path(getwd(), "PRESENTATION"), hi.cex = 25)
```

Arguments

<code>in.file</code>	A character vector of the md file.
<code>out.file</code>	A character vector of the outfile. If "replace" over writes the original HTML file. Default, NULL, uses the root name of the <code>in.file</code> plus a number 2.
<code>type</code>	A character string of the desired slide type; either c("slidy" or "dzslides").
<code>ref.page</code>	The title of the reference page (adds hanging indent and reduces font size). If NULL references slide will not be adjusted. If reference title is not found a warning will print.
<code>refs.cex</code>	The font size to make the references.
<code>path</code>	The path to where the documents reside/should be created. Default is the PRESENTATION directory. This conveniently allows for non paths to be supplied to <code>in.file</code> and <code>out.file</code> . Paths can be supplied to <code>in.file</code> and <code>out.file</code> by setting <code>path</code> to NULL.
<code>hi.cex</code>	The font size to make the hanging indent coded text if <code>hi</code> code chunk is used.

Details

The user must have Pandoc installed and on their path. Pandoc can be installed from: <http://johnmacfarlane.net/pandoc/installing.html>

Code Chunks

The following convenience code chunks are implemented:

1. **hi** - Wrapping text with this code chunk will result in hanging indentation. Use `hi.cex` to control the font size of the text.
2. **yt** - Wrap a youtube url or tag to embed a youtube video

Code chunks use the following form: `[[[text]]]=code.tag` (e.g., `[[[cokNUTGtoM4]]]=yt` embeds a youtube video. Currently this is a convenience feature that may have unexpected results and may need additional tweaking within the html output. When using embedded youtube, slide titles and text are ignored but may effect the spacing of the player. User additions are welcomed.

Author(s)

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References

<http://stackoverflow.com/a/14971683/1000343>

See Also

[reveal.js](#)

Examples

```
## Not run:  
#Run after running knitr on an Rmd file  
html5() #assumes location of html file out of the box  
  
## End(Not run)
```

LL

Format Text Lines to LaTeX List

Description

Itemizes lines of text into a LaTeX list.

Usage

```
LL(enumerate = TRUE, text = "clipboard",  
   copy2clip = TRUE)
```

Arguments

enumerate	logical. If TRUE uses the enumerate environment. If FALSE itemize is used instead.
text	character vector or text copied to the clipboard. Default is to read from the clipboard.
copy2clip	logical. If TRUE attempts to copy the output to the clipboard.

Details

This function formats text for use with LaTeX as a list.

Value

Returns a character vector with a LaTeX list formatted text.

Warning

Ligatures are assumed to be "fi", however, these elements may be "ff", "fi", "fl", "ffi" or "ffl".

Examples

```
## Not run:
x <- readLines(n = 3)
one, two buckle my shoe
three, four close the door
five, six pick up sticks
LL(, x)
LL(FALSE, x)

## End(Not run)
```

new_report

Report Template

Description

Generate a report/paper template to increase efficiency.

Usage

```
new_report(report = "report",
  template = getOption("temp_reports"),
  bib.loc = getOption("bib.loc"),
  name = getOption("name_reports"),
  github.user = getOption("github.user"),
  sources = getOption("sources_reports"), path = getwd(),
  AN.xlsx = TRUE)
```

Arguments

report	A character vector of length two or one: (1) the main directory name and (2) sub directory names (i.e., all the file contents will be imprinted with this name). If the length of report is one this name will be used as the main directory name and all sub directories and files.
template	A character string of the internal reports template or an external path to a template in the reports package style. This argument allows the user to change the contents of the report directory that is generated.
bib.loc	Optional path to a .bib resource.
path	The path to where the project should be created. Default is the current working directory.
name	A character string of the user's name to be used on the report.
github.user	GitHub user name (character string).

<code>sources</code>	A vector of path(s) to other scripts to be sourced in the report project upon startup (adds this location to the report project's <code>.Rprofile</code>).
<code>AN.xlsx</code>	logical. If TRUE the article notes (AN) will be in <code>.xlsx</code> format. If FALSE the document will be a <code>.csv</code> file.

Value

Creates a report template.

Suggestion

The user may want to set `options` for `bib.loc`, `name_reports`, `temp_reports`, `github.user` and `sources_reports` in the user's primary `.Rprofile`:

1. **bib.loc** - The path to the users primary bibliography
2. **name_reports** - The name to use on reports
3. **temp_reports** - The primary template to use to generate reports (see `template`)
4. **github.user** - GitHub user name
5. **sources_reports** - Path(s) to additional files/scripts that should be included to be sourced in the project startup

Additional Guide

Introductory video <http://youtu.be/cokNUTGtoM4>

See Also

[doc_temp, presentation](#)

Examples

```
## Not run:  
new_report()  
  
## End(Not run)
```

pad

Pad Strings

Description

A convenience wrapper for `sprintf` that pads the front end of strings with spaces or 0s. Useful for creating multiple uniform directories that will maintain correct order.

Usage

```
pad(x, padding = max(nchar(as.character(x))),  
    sort = TRUE, type = "detect")
```

Arguments

x	A character, factor, numeric vector.
padding	Number of characters to pad. Default makes all elements of a string the number of characters of the element with the maximum characters.
sort	logical. If TRUE the outcome is sorted.
type	A character string of "detect", "numeric", "character", "d" or "s". If numeric zeros are padded. If character spaces are padded. The detect attempts to determine if x is numeric (d) or not (s).

Value

Returns a character vector every element padded with 0/spaces.

See Also

[sprintf](#)

Examples

```
pad(sample(1:10, 6))
pad(sample(1:10, 6), sort=FALSE)
pad(as.character(sample(1:10, 6)))
pad(as.character(sample(1:10, 6)), 4)
```

presentation	<i>Presentation Template</i>
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Description

Generate a presentation template to increase efficiency. This is a lighter weight version of [new_report](#).

Usage

```
presentation(presentation = "presentation", rnw = TRUE,
  theme = "Madrid", bib.loc = getOption("bib.loc"),
  name = getOption("name_reports"),
  github.user = getOption("github.user"),
  sources = getOption("sources_reports"), path = getwd())
```

Arguments

presentation	A character vector of length two or one: (1) the main directory name and (2) sub directory names (i.e., all the file contents will be imprinted with this name). If the length of report is one this name will be used as the main directory name and all sub directories and files.
rnw	logical. If TRUE the documents will be .Rnw and .tex files. If FALSE the documents will be .pptx and .docx files.

theme	Beamer theme to use. If NULL presentation will allow the user to choose interactively.
bib.loc	Optional path to a .bib resource.
name	A character vector of the user's name to be used on the report.
github.user	GitHub user name (character string).
sources	A vector of path(s) to other scripts to be sourced in the report project upon startup (adds this location to the report project's .Rprofile).
path	The path to where the project should be created. Default is the current working directory.

Value

Creates a report template.

Suggestion

The user may want to set [options](#) for bib.loc, github.user and sources_reports in the user's primary .Rprofile:

1. **bib.loc** - The path to the users primary bibliography
2. **github.user** - GitHub user name
3. **sources_reports** - Path(s) to additional files/scripts that should be included to be sourced in the project startup

See Also

[new_report](#)

Examples

```
## Not run:
presentation()
presentation("New", rnw=TRUE, theme=NULL)
presentation("New", rnw=FALSE)

## End(Not run)
```

print.reports	<i>Prints a reports Object</i>
---------------	--------------------------------

Description

Prints a reports object.

Usage

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

Arguments

x	The reports object.
...	ignored

reports	<i>reports: Assists in the workflow of writing academic articles and other reports</i>
---------	--

Description

reports is a package that assists in writing reports and presentations by providing a frame work that brings together existing R, LaTeX/docx and Pandoc tools. The package is designed to be used with RStudio, MiKTeX/Tex Live/LibreOffice, knitr, knitrations, Pandoc and pander. The user will want to download these free programs to maximize the effectiveness of the reports package.

reveal.js	<i>Convert md to HTML5 reveal.js</i>
-----------	--------------------------------------

Description

Uses <http://johnmacfarlane.net/pandoc/> to convert md to HTML5 **reveal.js** slides and provides minor modifications (e.g., embedded youtube and hanging indent text, etc.).

Usage

```
reveal.js(theme = "default", transition = "default",
  in.file = NULL, out.dir = path,
  ref.page = "References", refs.cex = 15,
  path = file.path(getwd(), "PRESENTATION"),
  figure.dir = "figure", hi.cex = 25)
```

Arguments

theme	possible reveal.js themes: c("sky", "beige", "simple", "serif", "night", "default").
transition	possible reveal.js transitions: c("default", "cube", "page", "concave", "zoom", "linear", "fade", "none").
in.file	A character vector of the md file.

<code>out.dir</code>	A character vector of the out directory. Default uses the root name and outputs to a directory called <code>reveal_js</code> .
<code>ref.page</code>	The title of the reference page (adds hanging indent and reduces font size). If NULL references slide will not be adjusted. If reference title is not found a warning will print.
<code>refs.cex</code>	The font size to make the references.
<code>path</code>	The path to where the documents reside. Default is the PRESENTATION directory. This conveniently allows for non paths to be supplied to <code>in.file</code> and <code>out.file</code> . Paths can be supplied to <code>in.file</code> and <code>out.file</code> by setting <code>path</code> to NULL.
<code>figure.dir</code>	The name of the figures directory where figures are stored. This should be in the presentation folder. By default it is called <code>figure</code> .
<code>hi.cex</code>	The font size to make the hanging indent coded text if <code>hi</code> code chunk is used.

Details

Outputs a directory, `reveal_js`, with an `index.html` and necessary `reveal.js` files. The user must have Pandoc installed and on their path. Pandoc can be installed from:

<http://johnmacfarlane.net/pandoc/installing.html>

Code Chunks

The following convenience code chunks are implemented:

1. **bg-** Place after a slide title to change background color. Currently takes `bg-soothe`, `bg-blackout` and `bg-alert`.
2. **frag-** Using a dash/space (-) has the usual effect of text appearing however special effects can be applied to text by using the dash/space followed by the text and followed by `[[[[]]]]=frag-` and last a fragment style. Valid styles include: `grow`, `shrink`, `roll-in`, `fade-out`, `highlight-red`, `highlight-green`, or `highlight-blue`.
3. **hi** - Wrapping text with this code chunk will result in hanging indentation. Use `hi.cex` to control the font size of the text.
4. **notes** - Wrap presenter notes that work when slides are uploaded to the Internet. Press "s" to get the speaker notes window.
5. **small** - Wrap text to produce small font.
6. **sud** & **eud**- Wrap a group of slides to give the nested up and down capabilities. `start-up-down` (`sud`) goes directly above the beginning side in the `.Rmd` file, `end-up-down` (`eud`) goes directly at the end of the last slide in the nested group, however there should be a space between text and this code tag.
7. **yt** - Wrap a youtube url or tag to embed a youtube video.

Code chunks use the following form: `[[[text]]]=code.tag` (e.g., `[[[cokNUTGtoM4]]]=yt` embeds a youtube video. Currently this is a convenience feature that may have unexpected results and may need additional tweaking within the html output. When using embedded youtube, slide titles and text are ignored but may effect the spacing of the player. User additions are welcomed.

See Also[html5](#)**Examples**

```
## Not run:
#Run after running knitr on an Rmd file
reveal.js() #assumes location of html file out of the box

# An example .Rmd file can be found:
system.file("extdata/docs/example.Rmd", package = "reports")

## End(Not run)
```

templates

View Templates

Description

View all the reports package templates.

Usage

```
templates(print.cons = TRUE, names = TRUE)
```

Arguments

print.cons	logical. If TRUE The template information id printed to the console.
names	logical. If TRUE only the names of the templates will be returned.

Details

This function prints (via [cat](#)) to the console to view possible templates (feel free to submit your own; see [doc_temp](#) for details) as well as optionally returning a vector of names that the user can pass to other functions.

See Also[doc_temp](#)**Examples**

```
## Not run:
templates()
templates(FALSE)
new_report("new", templates(FALSE)[4])

## End(Not run)
```

tex2docx	<i>Convert tex to docx</i>
----------	----------------------------

Description

Use <http://johnmacfarlane.net/pandoc/> to convert tex to docx for those colleagues who use docx.

Usage

```
tex2docx(in.file = NULL, out.file = NULL,  
         path = paste0(getwd(), "/REPORT"),  
         bib.loc = getOption("bib.loc"))
```

Arguments

<code>in.file</code>	A character vector of the md file.
<code>out.file</code>	A character vector of the outfile. If "replace" over writes the original HTML file. Default, NULL, uses the root name of the <code>in.file</code> plus a number 2.
<code>path</code>	The path to where the documents reside/should be created. Default is the REPORT directory. This conveniently allows for non paths to be supplied to <code>in.file</code> and <code>out.file</code> . Paths can be supplied to <code>in.file</code> and <code>out.file</code> by setting <code>path</code> to NULL.
<code>bib.loc</code>	Optional path to a .bib resource.

Details

The user must have pandoc installed and on their path. pandoc can be installed from: <http://johnmacfarlane.net/pandoc/installing.html>

Examples

```
## Not run:  
DOC <- system.file("extdata/doc_library/apa6_qual_tex/doc.tex",  
                  package = "reports")  
BIB <- system.file("extdata/docs/example.bib", package = "reports")  
tex2docx(DOC, file.path(getwd(), "test.docx"), path = NULL, bib.loc = BIB)  
  
## End(Not run)
```

themes	<i>themes</i>
--------	---------------

Description

a vector of available Beamer themes

Format

A character vector with 28 elements

Details

http://deic.uab.es/~iblanes/beamer_gallery/index_by_theme.html

References

http://deic.uab.es/~iblanes/beamer_gallery/index_by_theme.htm

update_bib	<i>Update bib</i>
------------	-------------------

Description

Updates the report directory bib file with a global/master bib file.

Usage

```
update_bib(report = getwd(),  
           bib.loc = getOption("bib.loc"))
```

Arguments

report	Path to the report project.
bib.loc	Optional path to a .bib resource.

Value

Updates bib from master/global bib

US

Insert Underscores in Path

Description

A convenience wrapper to replace black spaces with underscores.

Usage

```
US(text = "clipboard", copy2clip = TRUE)
```

Arguments

text	character vector or text copied to the clipboard. Default is to read from the clipboard.
copy2clip	logical. If TRUE attempts to copy the output to the clipboard.

Value

Returns a character vector every space replaced with an underscore.

Warning

Ligatures are assumed to be "fi", however, these elements may be "ff", "fi", "fl", "ffi" or "ffl".

Examples

```
US("bad path with spaces")
```

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